

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
3866	34234	A	3906	1	4527	MGFCCRECRPRLKGRPCIQHA GPVAAFVKVATPYSLYVCPEGQ NVTLCRLLGPVDKGHDVTFY KTWYRSSRGEVQTCSERRPIRN LTFQDLHLHHGGHQAANTSHD LAQRHGLESASDHGHNFSITMR NLTLDSGLYCCLVVEIRHHHS EHRVHGAMELQVQTGKDAPSN CVVYPSSSQDSESNHGNNFRIH VSNGLLMRGRPLDRERNSSHV LIVEAYNHDLGPMRSSVRMRK LRQSTALAQHWGTALDR
3867	34235	A	3907	1	2180	MALTFPCRKFEWYGRQPEVR YSVPASHQLKATDADEGEFGR VWYRILHGNHGNFRIHVSNG LLMRGRPLDRERNSSHVLIVE AYNHDLGPMRSSVRMRKLQRS TALDSTGQAQHWTESRSGSPG SPVAPTCART*QTSAS\HLCCL SGKSHHAWPP*TPFKLYYVHE YSAHIHKENLVLVIVYVEDIND EAPVFTQQQYSRLGLRETAGIG TSVIVVQATDRDSGDGGLVNY RILSGAEGKFEIDESTGLIITVNY LDYETKTSYMMNVSATDQAPP FNQGFCSVYITLLNELDEAVQF SNASYEAAILENLALGTEIVRV QAYSIDNLNQITYRFDAYTSTQ AKALFKIDAITRILGTQMDTKM NKTLLSPQVRRLLEVEMELIQD ANQSATRRCAENYNRGVVEPL RAQQSYLAGEAGRLHGRGGFP VECEREELIQTECPGEVMPDR GSDMEGVITVQGLVDREKGDF YTLTVVADDGGPKVDSTVVSG TRVYITVLDENDNSPRFDFTSDS AVSIPEDCPVGQRVATVKAWD PDAGSNGQVVFSLASGNIAGAF EIVTTNDSIGEVFVARPLDREEL DHYILQVVASDRGTTPRKKDHI LQVTILDINDNPPVIESPFGYNV SVNENVGGGTAVVQVRATDRD IGINSVLSYYITEGNKDMTFRM DRISGEIATRPAPPDRERQSFYH

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3868	34236	A	3908	603	1395	RGRPRGSPFPTRAPREKKR*EE VGGHKREQTG*GGGERRKPPN PQHEPKERGWCSPVPEEPQ/RK RRSARARPKKL*REKRRRGRPK RCLW*TGRHPSHHPRTHQC*F* WRK/REEGKERKKEQPAHAGQ KRRKAARHRRRRRRRERTDEK NRTWTRRRREKAGQDEKREGE HGQKRSQQGRESRRDGRARTR KERRQKRENDNRARRRQQAER EKTKSVKRRQTTQQAEEVRQA RENEAREPQRRQHSRRRKEKE EMRAPRSKQ
3869	34237	A	3909	1	548	
3870	34238	A	3910	1	1803	
3871	34239	A	3911	1	279	
3872	34240	A	3912	1	506	MCYSRQSNLGTGEGKIKGSEV IDECPRSSRYQDLQELQNKTCL TVLEGDILDESLKRACQDMSV IIHTTSIIIGVTHRESIMNINVK RTQLLEACVQATVPVFIYTSTP EVAGPNSYKEIIQNSHEEEPLEN TWCSPS/PYKKA/LARSGI*ATL QLGGSQEECT
3873	34241	A	3913	3	621	AGQQTVEIDLRHRIQLPDLENQ RNFNELSRIVLEVRERVRQEQQ EGGHEAGEGRGRQGPRESQPSP AQPRAEAPSKGPDGTPGEDGGE PGDAVAAAEQPAQCGQGQPFV LPVGVSSRNEDYPRTCRMWNS TFQTYKKEVCLPRHSMHPGPW AICCECQTRFGGRLPVSVEAA LPYWVPLSLRPRKQHPCEMHA AGTTAGGSVM
3874	34242	A	3914	1	430	RHRIQLPDLENQRNFNELSRIVL EVRERVRQEQQEGGHEAGEGR GRQGPRESQPSPAQPRAEAPSK GPDGTPGEDGGEPEGNAVAAAE QPAQCGQGQPFVLPVGVSSRNE DYPRTCRMW*GCGGYWGLKV GQHGLQRGPQHT
3875	34243	A	3915	2	1175	
3876	34244	A	3916	1	256	HLRIHTQESSYVCDECGKALTS KRNHQQHRIHTGEKPYECSKY /G*PFGLLPQLGHLEHVYSGEKP VLDICRFGLPFEFTFPYW

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3877	34245	A	3917	1	1396	MRPQLAGRDHHRGAATLLLER PGRLVTHFRQRRGAVRYGGGK STTQHLSQRRLSGPNDHTKGLV WLEHILQRLVSFVKLQATRFT TRTYITYAWFLPWGFSGLCGT PVDTCWALKHQRIHTGEKPFEC SECGKAFNGNSSLRHQRIHTGE RPYQCEECGRAFNDNANLRHQ RIHSGDRPYCYCTECGNSFTSSSE FVIHQRIHTGEKPYECNECGKA FVGNSPLLRRHQIHTGEKPYEC NECGKSFGRTSHLSQHQRIHTG EKPYSCKVCGQAFNFHTKLTR HQRIHSEKPF*L/CVDCGKA AQEQLKRHLRIHTQESSYVCDE CGKALTSKRNLHQHQRIHTGE KPYECSKYEKAFTSSQLGHLE HVYSGEKPVLDICRFLPEFFTP FYWKEEKKCGRKMNEVVHK VSFFLVVPIALSSLLKKWKML KKEKAQDPTEYGNLEDDNSQQ
3878	34246	A	3918	1	547	MDSQRPRER/QRERERQSERQR HTQRMHREAETEDERDWDKGH DTKTRRQRQRKRAEEGQCREH DRERRRD\RTGERREKQRKSTQ QSRKPSEEPHREKTQIKRERGPE QGELERGQCTERNRKA/GTPEC *TDPHIWTPHPARSAPAHPPDH TAAKYRPPYRSHHSGITHQHPR AASTLKLWPKP
3879	34247	A	3919	1	399	
3880	34248	A	3920	3	872	KSKLKSEQDGIKTHKLLRRTC SSTVKTDDVCVTKSHRTFGRSL SSDPRAEQAMTAIKSHKLLNRP CPAAVKSEECLTKSHRLLTRS WSGDPRCEHNTNLKPHKLLSRS YSSNLRMEELYGLKNHKLLSKS YSSAPKSSKT*/VFSKEP*RRRG RKALSLPQGLFGYP*HHLHPSSS QLAPNGAKCIPVRDRGFLVQTI EFAEQRIPVLNEYCEVCDEPHV FQNGPMLRRGRDVCWEAKKY ANSVVRKKFCRLSIARRSRYRA DMDLLRMSNFILTIYKQKLN
3881	34249	A	3921	3	218	CCRSHQGAGEGGLSVQLLWQ YRWMWCSWGPVAFQFHTDLEL VAWRCVGLDPGCQQLDIGMQT LIGDHICVF
3882	34250	A	3922	1	1055	

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3883	34251	A	3923	3	962	RSMRQKVNKDIQDLISALPQAD LIDIYRTLHPKSTEYTFFSAPHR TYFKIDHIVGSKALLSKCKRTEI TTNCLSDHSAIKLELRIKKLTQN RTTTWKLNNLLNDYWVHNE MKAIEIKMLFETNENK/DETYQN LWDTFKA/PSILNGQKLEAFPL KTGTREGYLLLPLLFNIVLEVL AMAIRQEKE/IKGFQLGKEEVK LSLFADDMIVYLEDPHSAANLL RLISNFSKVSGYKINVQKSQTF YTNNRQTESQIMSELPFTIATKR IKYLGILQTRDVKDLLKENYKP LFNEIKEDTNKWKNPICSWIGRI KIVKMAILPK
3884	34252	A	3924	1	1452	MGDFNTPLSTLDRSMRQKVNK DTQELNSALHQADLIDIYRTLH PKSKEYTFFSALHHTYSKIDRT VGSKALLSKCKRTEIITNSLSDH RAIKLELRIKKLTQNRSTTWKL NNLLNDYWVHNEMKAIEIKM FFETNENKDTTYQNLWDTFKA VCRGKFIALNAHNRKQERSKID TLTSQLEKELEKQEQTQSKASRR QEITKIRAELEMEIETQKTLQKSN ESRSWFFERINKIDRPLARLIKK KREKNQIDVIKNDKGDITDPT EIQTTIREYYKHLIYANKLENLE EMDKFLDTYTLPRLNQEEVESL NRPITGSEIVAIINSLPTKKSPGP DGFTVEFY/QEGN*AGEGNKGY SIRKRRSQIVPVWR*HDCISRKP HRLRPKSP*AGKQLQQSLRIQN QCTKITSIFIHQ*QANRKSNE* TPIHNCFKENKIPRNPPYKGCEG PLQGELQTTAQ*NKRGYKQME EHSMLMGRKNQYRENGHTAQ

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3885	34253	A	3925	1	1251	MKAEINMFFETNENKYTVYQN LWDTFKA VCRGKFIALNAHKR KQERSAMNTLTSQLELEKQE KTNSKANRKQETTKIRAELEI ETQKTHQKINESRSLFFEKTNI DRPLARLVKKKREKNQIDAIGN DTGDITDPTEIQTIREYYKCL YANKLEYLEEMDKFLDTYTLQ RLNQEKVESLHRPITGSEIEAII SLPT/KKSPGPDRFTAQFYQRY DGMYLKIIIRAIYDKPTANIMLN GQKLEAFPLKTGTROGCPLSRL LFNIVLEVLAARVRQEKEINGIH LGKQEVKLSLFADGMIVYLENP IVSAQNLLKLISKFSKVSQYKIN VQKSQAFLYTNNRQTESQIMSE LPFTITTKRIKYLGIQLARDVKD LFKENYKPLLNKIKEDPNKWK NIPCSWIGRINIMKMAILPK
3886	34254	A	3926	1	1203	
3887	34255	A	3927	1	1233	
3888	34256	A	3928	1	951	MKREKNQIDAIGNDKGDITDP TEIQTIREYYKPLYTNKLENLE EMDKFPDITYTLPRLNQEEVESL NRPITGFEIEA/INSLPTK*SPGAE GFTAIFYQSVGSSGQGNQARE RNKGYSRKRGTQIVPVCRW DCIFRKLHGLSPKSP*ADKQLQ QSLRIQNQCAKITSIPHQ*QTYR EPNHE*TPIHNCYKENKIPRNTT YKGCERPFQELQTTAQ*NKRR HKQMEEHSMMLDRKNQYREN GHTAQGHL*IQCHPHQATNYFL HRIGKNYFKLHMEPNKSLHSQ DNPQKEQSWRHAT*LQTILO GYSHQNSI
3889	34257	A	3929	1	814	

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3890	34258	A	3930	1	1545	HQLKVQFRIIISIRSSCDGSAWG VAPTFKTRGARSRSRAAIRLGA ADLDEVKSSLVNESENQSSSSD SEAERRPQPVRDTFQKPRDYFA EVRRPQDSAFFKGPPYPGYFL MIPDLSSPYLSNGPLSPGGARTN SSPAPKETWICARFGGVLSLFLE IGSRVLLLGRDVNRSSLLPAQI PIACHFAVDGGNFIRGKGAYLL TFDLFGNWGLFFLIEIAVWELS AHSSGQSEDALELSRGTCSSSL QLCWTAALVGKGLDGGPVC KNSGICSTRTKTQEQMSFMEAL YQEGFLRETVVQAVRKVPQTP RKAVLEVLARISQEKEIKGIQL GKEEVKLSLFADDMTVYLENPI VSAQNLLKLISNFSKVSQYKIN VQKSQAFPYTNNRQTESQIMSE LPFTITTKRIKYLGIQFTKDVKG LFKENYKPLLNEIKEDTNKWK NIPCSWIGRINIVKMAILPKVIY RFNAIPIKLPLTFFTELEKTTLNF IWNQKSRIGKKILSKKNKAGGI
3891	34259	A	3931	693	1464	ARAEVKLSLFADDMIVYLENPII *ARAEVKLSLFADDMIVYLENP IISAQNLLKLISKFSKVSRYKINV QKSQAFLYTNNRQTESQIMSEL PFTIATKRIKYLGIQLTRDVKDL FKENYKPLLNEIKEDTNKWKNI PCSWIGRINIVKMAILPKVIYRF SAIPIKLPMFTFFTELEKKNWLAI CRKLKLDFFFIPYTKINSRWIKD LNVRPKTMKTLEESLGNTIQDI GIGKDFMTKTPKAMATK/DQKS FCTAKETTIRVNRQPTWEKIF AIYPSDKGLIS

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3892	34260	A	3932	211	2519	ENRKSNCCLQMA*LYI*KIPSS QPKISLS**ANLAQSQDTKSMC KNHKHSYTLITDKQRAKS*VNS HSQLLQRE*NT*ESNLQGM*RT SSRRTTNHCSTK*KRTQTNGRT FHAHG*EESIS*KWPYCPSKC/K. RTEIITNSPSDHSTNKLELRIKKL TQNHTITWKLNNLLNDSWVN NEIKAEIKKFFETNENKKTYYQ NLWDTAKAVLRGKFIALNAHI GNLERSKIYTLISQLKEPERQEQ TNPKASRRQEITKIRAELEIET QKTLQKINESRSWFFENIKIDRQ LARLIKKKREKNQIDTITNNKG DITTDPIEIQTIREYYKYLYAN KLENLEEMDKFLDYYTLPRLNQ EEVESLNTPIGSEIKAIINSLPT KRSPGPDRSTAE/FYHRYKEEL VLFLKLFQSTEKEG\GRDTTK KENFRPISLMNIDAKILNKILAN RIQQHIKKLIYHDQVGFIQGMQ GWFNICKSINVIFQYTNNRQTES QIMSELPFTIASKRIKYLGIQLTR DVKDLFKENYKPVLEIRGHK QMEEHSMLMDRKNQYCENGH TAQGNL*IQCHPHQATNDLHR IGKEEVKLSLFADDMIVYLENPI ISAQNLLKLISNFSKVSAYKINV QKSQAFRYTNNRQTESQIMSEL PFTIASKRIKYLGIQLTRDVKDL FKENYRPLLNEIKEDTNKWNI PCSWVGRINIVIMAILSKVIYRF
3893	34261	A	3933	2	1304	
3894	34262	B	3934	141	2008	

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3895	34263	A	3935	1	1845	MVISVDAEKT FNKIQQPFTLKT LNKLGIDGSYLKIIRAIYDQPTA NIILNGQKLEAFPLKTGRRQGC PLSPLLFNIVLEV LARAIRQEEI KGIQLGKEEVKLSLFADEMIVY LENPIVSVQNLLKPIRNF SKVLG YKINVQKSQAFLYTINRHTESQI MSELPFTIATKRMKYLGIQVTR YVKDLFKENYKPLLNEVKEDT NKWKNIPCPWIGRINILKMAIL P/KELEKTTLKFIWNQKRACIAK SILSKKNKAGGITLPDFKLYYK ATVTKTAWYWYQNRDIDQWN RTEPSDIIPHIYNHLIFDKPDKNK KWGMGSLFNKWCWENWLAIC RKLKLDPFLTPYTKINSRWIKD LNVRPKTIKTLEENLGNTIQDID MGKDFMSKTPKAMATKAKIDK WDLTKLRSFCTAKETTIRVNRQ PKEWEKIFAIYSSDKGLISRIYK ELNFTRK\NNPIKKWAKDMNR YF*KEDIYAANRHMKKCSSSLA IREMQIKTTMR/YHLTPVRMAII KKSGNRTRENYFKIHMESKKS QNSQGNRKEKEQSWRHATRL QTIVQGYTVAKTACYWYKNRP TDQSNRTENQEIRLHTYNHLIF DKPDKSNGETTPYSINGARITG
3896	34264	A	3936	1	700	
3897	34265	A	3937	1	3489	MKSGHPEKEQDNSDVQETREIT IRGLLCTALMRHSTGAIAYLGV LSGSASLKL AGVPLRCCEGDKD AGHPLETQTALCERGRGARS LV GNTIMTSQVPVNETIIVLPSNVIN FSQAEKPEPTNQGD SLKKHLH AEIKVIGVNLIQNVLERGWGKC QEMIYVLGLDICRPFFVSRVSEE GRMGQRGEEDANS LDFPPASLL CLICQEQGVNGESCSPVGM YH REIVPVYEVLSVITGLQIQVFSG KEADSVIKRS

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3898	34266	A	3938	120	1331	TSLGPIYCAVRHTSSCRKVGSSR CQHGCQLSVRLQLDQAAHHKQL PWLAPKNAVVPKSLEDPQGRK EGVTALTPEAPRSGPPKRLQLFP PSLCPNCSKQGA YFSFGVTAT LLATPFSSRSRLVLQPGRMRYA DKWRVSKMKRCCIEQWNSSEK THSARASHSLQRQRGGPRVGGG SLQAGCHVISAALSKEEALWV ASFCRQIVQSYLRPLLCSGADP GAFMDLRGEELRSLELSLSTP PSNEFKISMKLEAQDPRNTTST CIATVVGLTGARLRLRLDGSDN KNDFWRLVDSAEIQPIGNCEKN GGMLQPPLGDSFHC D VRSILD LFCFLSEL PFTIDTKRIKYLGIQ LTKDVKDLFKENYKPLLNE/K/ EDTNKWKNI PRSRIG*INIVKMA ILPKDFG
3899	34267	A	3939	1	1421	MDSMSGGGQYRKINGNPTSVK CPLLLLPAILTPEPVNRWRQSC KAFARHSPLAFRVTISTSTFFDG LLVTGLYTSTSVQASQSIGGSSA FGFVLEVLARAIROEKEIKGIQL GKEEIKLSLFAGDMIVYLENPIV SAQNLLKLISNFSKVSGYKINV QKSQAFLYTNNRQTESQIMSEL PFTIASKRIKYLGIQLTRDVKDL FK\ENYKPLLKEIKEDTNKWKN IPCSWVGRINIVKMAILPKNWK KLKFIWNQKRAHIAKSILSQKN KAGGITLPDFKLYYEATVTKTA WYWYRNRDIDQWNTTEPSEIM PHIYNYLIFDKPEKNKKWGKDS LFNKWCWESWLAICRKLKLDP FLTPYTKINSRWIKDLNVRPKTI KTLEENLGITIQDIGMGKDFMS KTPKAMATKAKIDKWDLIKLK SFCTAKETTIRVNRQTTKWEKI FATYSSDKGLISRICNELKQIYK KKTNNPIKK

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3900	34268	A	3940	3	1566	IQTTIGEYYKHLYTNKLENLEE MDKFLDITYTLPRLNQEEGESLK RPMAGSEIEAIINSLPTKNSPGP DRFTAIFYQRYKEELLISNFSK VS/VIQNQWEKITSIPHQ*QTNR EPNHE*TPIHNCFKENKILGIQL TRDVKDLFKENYKPLLSEIKED TNKWKNIPCSWIGRTNIVKMAI LPKDKTSKYIDVDENEGSHCGK RKYKYGMEKALEILARAIROEK EIKGIQLGKEEVKLSLFADDMI VHLENPIISAQNLLKLISNFSKV SGHKINVQKSQTFLYTNNRQTE SQIMSGLPFKIATKRIKYLGIQL TRDVRDLFKENYKPLLNETKED TNKWKKNILSSWIGRINIVKMA ILPKVIYRFNAILINLPMFTFTEL EKTTLKFIWNQKRACIAKTILSQ RNKAGGITLRDFKPYKATETK TASEMKYYLENKIPFKVLHVM YNVPTHPPFIGDLHPNTKVVS LPPNITSLIEPMNQGVISAFKDCY LRKTFVQAVATPEGETEMTVM QFWKDYNT

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3901	34269	A	3941	1	2580	MVKGSIQQEELTILNRYAPNTG APRSIKQVLSDLQRDLDSHTIIM GDFNTPLSTLDRSTRQKVSKDI QELNSVLHQADLIDIYRTLHPK STECTFFSAPHRTYSKIDHIVGS KALLSKYKRTEIITNCCSDHSAT KLELRINKLTQNRSTTWKLNLL LLNDYWVHNEMKAQIKMFFET NENKDTAYQNLWDTFKAMCR GKFIALNAHKRKQERSKIDTLT SRLKELEKQEQLTHSKDSRRQE INAEKAFDKIQPPFMLKTLNLT DIDETYLKIIRAIYDKPTVNIILN GQKLEVPFLKTGTRQGCRLSPL LFNIMLEVLARAIQEKEIKGIQ LGKEEVKLSLFADDMIVYLENP IISAQNLLKLISNFSKVSQYKIN VQESQAFLYTNNRQTESQIMSE LPFTIASKRIKYLGIQLTRDVKD LFKENYKPLLKEIKEDTNKWK NIPCSWVGRINIVKMAILPKVI YRFNAISNKLPMFTFFTELEKTTL K\FI*KQKRACIAKSILSQKNKA GGITLPDFKLYYYKAIVTKTA WYWYQNRDIDQWNRTEPSEIIP HIYNHLIFDKPDKNKKWGND LFNKRCWENWLAICRKLKLD FLTPYTKINS\RWIKDLHVRPKT IKTLEENLGNTIQDIGMGKDFM TKTPKAMATKS\KIDKWDLIK KSFCTAKETTIRVNRQPTWK KIFTIYPSDKGLISRIYKEPKQIY

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3902	34270	A	3943	5	2130	QRLRRQHRLEQKTRSTTCHMR QSTTRSAERADTRIESMPT*TPP *HTDDVP/SHCTNSTHTATTSPS THNHQQTLTRVANVAQIRRTDI SSIAATEWISTINTHNYACRTRA VSQRRYVSDFEKRERPTSNTPE PRFRLVVSTPTLVGTTQGTYP PPARSRISIASHLLPPLSLLPSSL DL DGRSTLACSSVSQFSGSRGS PSSYIVATTRVISDVYDMTTY YNSTITPIS/PSARS*QORSVHLL LSSHRTYRHPLVSRHTSQEHSL GGPLHRH*YNPVGSRAAAWAS KSALV/SVSLEALVVSALI*LVA TRQRLVGICRTTPIRARSSVVR* VTRYQPNQRAPLIHATYHLLDR GQHPQSMQTISHWTTPPCWCL VCGKKSSLPCCSTSSMSTRNQ YDTLSLTTSWVL*SSIFWLAFIL LPRTSLPWPTVS*LAANA\SSGS TPVNSSFRTSVRRSKLVVPANE IETPSFVVVTKFSRSASSYDCSIE YASTYAINITIVNSYVFA/PTHHT REHTISYALTSPGQPQNKTRIBE LQWAF*AVRPSTQ/PSTVIYHAP TSQAIASCALHSLGCLLG SAT APLPPTWTTPPPPQLRTT*STG SLPHPPSC*TRP*PLAPRN*PFTG MSSQHCIPT*PQLASHSIALRG/S RARPTTSQTSIAS/SHSHS*LSHV Q*RPLSDQRSPLDHHAHSSILYA RASRISCLRVCAY
3903	34271	A	3944	254	884	MTPNYTSRLFLHMGVLFYFPFYR RLT*HIRTHINLKGWK/NRHFM QMDTKNAEKALDKIQHRFMK TLKISIQGTHFKIHKAIYGKSTT NTILNGEKLKAFPLRTGIKQGCP LLPLPFNIVLELLARAIRQEKEIK GIQIGKEEVKLTTFADDMIIYLE NSKDSSRKLPELIKEFSKVSRYK VNLHKSIALLYTNSDQAENQIK NSTSFTI
3904	34272	B	3945	52	843	

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3905	34273	A	3946	1	831	MEMLYCLIAEAGHISSRMATNT ANSAGLKPTVCVCVALPLPPGRS APHRSCSQAGRELPGQGPRYYR HLPQLSILHSIGEGQGCQFWSER SFKGYPERPAGAAGVCRLQGC GRRGRGAPFRTTDFSSRPRGAA ERADQGPRAGSPWPRTTSGAQ RGRAQQGHTARRRGNSNPGP SRARQASRRRRPATSGPPRGSP RPDRPRRRSPFYRSSSRETSRPP EGPRRPRAPALSAPAGQPAPR RPREVPFCGAVFTARDRLRPPA ATSHAPFSAANPRR*HRPGGPG ARRLGDAQLSRRST/SGAPRCS QTRSR*PTVCVCVALPLPPGRSAP HRSCSQAGRELPGQGPRYYRHL PQLSILHSIGEGQGCQFWSESRF KGYPERPAGAAGVCRLQGCGR RGRGAPFRTTDFSSRPRGAAER ADQGPRAGSPWPRTTSGAQRG RAQQGHTARRRGNSNPGPSR ARQASRRRRPATSGPPRGSPRP DRPRRRSPFYRSSSRETSRPEG PRRPRAPALSAPAGQPAPRPRP REVPFCGAVFTARDRLRPPAAT SHAPFSAANPRR
3906	34274	B	3947	250	281	
3907	34275	A	3948	3	639	DHTCRLRQRLRLRVLVGPVPG AGPAG*KGCYGGRSANHHGAP ASCHLARSSCGPRLPGRYSAQQ PRARCAASGLCGWTAPAADPV PSEVLASQEVQLLCAGE*SGSC GPTHADLQSPGGTGEDGAAR AKRDLPGSVGERAAAPASGRL RACPGRPAGAPGPRARPPGGTA ALAQP RP PQGAAARPPSGIGWP GNNGSAQSKGRALMEQAAG

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3908	34276	A	3949	161	2377	SLFHGKVCFLHEPLPLVYLSL CTGYQLFKPSLISWLEEEELST LPRVLQEWKMLCKTKGPALW QDNFCLKTLNGIQLARNQNGEE LYDCKQCEDVFCKHPCLKTNM STQNRGNTSECIQYAKDLLSLY NKTSTIRKVSFVSKHGKSFRLAF *MFRSRESVHKINPLK/CTDYGK AFIYQSYLEAHRKTQSGEKLE WKQCGEAFTHSTSHAVNVETH IKNPYECKECKGKDFRYPTHLN NHMQTHIGIKPYKCKHCGKTFT VPSGFLEHVRHTTGEKPYGCKE CGKAFGTSAGLIEHIRCHAREK TFKCDHCGKAFISYPSLFGHLR VHNGEKPYEHKEYGKAFGTSS GVIEDRRSNTGQKRFDQDQCG KVFSVSSSLFAHLRTHTEKPF KCYKCGKPFTSSACLRIMRTH TEERLYQCKCGKAFTKCSYLT KHLRTHAGEKPYECMKCGKAF TERSULTKHLRRHSGEKPYECK KCGKAFTERSDLTKHLRRHTG DKPYEYKDCGKAFVSSSLVD HLRHTGYKPYKCNACEKAYS RSCVLTQHLKTHAAEKTSECN ACGNSFRNSMCFHDLRLTKI KPYKCKDCGKAFTCHSDLTNH VRIHTGEKPYKCKECKGAFRTS SGRIQHLRTHMGEKPFECQDQCG KAFALFSQLVLHI*KHTREKPCG CEECKGTFVSSSLTEHVKIHR
3909	34277	A	3950	6	455	GLLHERQAEARCSICLDYLRHP MTTDCRHYI*SARIHQCW*ELQ DISPCPVCLQHCPDKNLKRNFQ LCHMTDIAKQLLTARRKRKL QGEEPVCRKSDVALFCEKDPEL LCHQYRVSLDH*DH/SPMPIEQ AAAKHRKQFESYIEPLEKQV

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
3910	34278	A	3951	2	1009	WNGHRMN*MQSSNGLEWN/QS SNGKEWNHRIESNGIIIAWN/Q WYQHQTCKNGIFEWNRRESSN GPEWNHVM EWNG/DNPWTRM QSSSNGIEWNHRMDSNGIIFQW NGNGNHRIGIEWNYDQ\SNEWI QWNQHQTCKNGIIKWNRRESS NGPEWNHLM EWN/ENNPWTR MQSSSNGIEWNRMESNGLEW NNH*TESNGSVESSDGNER/QS SSNGIAWNHHKMESNGINIKW NQMESWN/WN*MNRMELSSNG IEWNQHQTECKNGIIEWNRRESS NGPEWNHLM EWN/ENNPWTR MQSSS/NWNRMESNGLEWNN/ QLNGIEWNHHRMEMNGIIIEW NRIELWN
3911	34279	A	3952	1	1494	MASLLGAPRLAGWASGAGALS RGWAIRPADTGGNLGPVPRVPL PPDPVLTARWAPGVNSGSQFSC HCQAPILEMGHKGSSPGLGDAE VRAITVQCIRPIDGPQPPGGGS AGRRLTIPASTQEWALPVGRV LANVLTEGGDTGNQPIQRSLC RPQPCSHAETWGEVEAQVPAQ SNREQPAAAPGCGPGRGETGA RPETTFSPRRAPPNPYDEEGR WSLEFMLCGTDGPVQPVQHQE GPAARLQLIRGGSLILESEGLR G/SPVLQTDQPASHLLHTQGF A/AALSAVCL/HQNIHSGSALL APATRAAWEQIRSEGGTAQL LRRLEGYFSNVARNVQWTYLQ PFVIVTTNMILAVDIFDKFNFTG ARVPWFDAIHEAFPRELESSISF PANFFKPPEEKEGPLVRPASRK TTPQTTRPGPGTEREAPISR*KR HPDDTG*FTFTLGIVYCTPGQLP PEPYDPNRRSLWLPHPWIINTS MVSALVYSEGAPLPSPL
3912	34280	A	3953	1	681	MGQLLDKNTPSHGARTREECG RERLCVSPSQGTGTPRTSAYLC VGGPAWSPLESERPAGSSGCPW IKPPDPYSPIGLCSLLTTEMMS RQPRDLRGQTNPAAPSAVPPL SCSQNLVWPSLMAGTTWHSP LSPSCFWHSPGHN*H*CCVSKD *KSLFWEPTA/YSPLLSTSP/SS KSMQPPKPRSNADSSVQASLIP RAMSSPTVSPWIMNGSQGFD HIAVSMWDD

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3913	34281	A	3954	136	420	RESRNL SRGEESEDPAEPS\ RNG *EHPLCYLQ*EFLQVLTMLQAE GTMHHFRSICQVNRNFLERGH/ SPPSPAPPPETHTGSPRPPSGRSR IRAYLH
3914	34282	A	3955	1	1782	
3915	34283	B	3956	1	3070	
3916	34284	A	3957	104	279	STTHPSVHE/QEEEEEEEEEEEE EEEEEEEEEEEEEEEEERKKEC SKAQCKHFPLSEVL
3917	34285	A	3958	1	252	MTVCIHIASEDLPVGRDVEVED SDIHDRDPGLGDKSETPSE/EKK EEEEEEEEEEEEEEEEEEEE EEEEEEEEEEEEEEEEEEEE NFLQHYLHL
3918	34286	A	3959	2	368	
3919	34287	A	3960	239	432	CLWLFQEEEEEEEEEEEEED*EEE EEE/EEEEEEEEEEEEEEEE EEEEEEEEEEKIFLGHVRGI
3920	34288	A	3961	1	577	MQIPSLHLKKEEEEEEEEEEEEE ERRRRIGRGREKKEEEEEEEEE EEEEEEEE\EKKKKEEKKKKEE EEEERRRKKKKERKEEEEE/G KEEEEEGEEGEEEEEEEEERRK EEEEEEEEGEEEEEEEEESCLMGP MCVHIHPDKDLYSLGPPAQR TGSHAEPT*KARRSSSWTAAS RGCAARDPPRRCSPA
3921	34289	A	3962	327	559	PKGRTPSPSCIHRYPCQTPRPHE P*GCHCPEEK/PRPRVWGPRC MPLGSVQEKRPCAPGGVQGSF RVSPMLMLTRL
3922	34290	A	3963	1	577	MQIPSLHLKKEEEEEEEEEEEEE ERRRRIGRGREKKEEEEEEEEE EEEEEEEE\EKKKKEEKKKKEE EEEERRRKKKKERKEEEEE/G KEEEEEGEEGEEEEEEEEERRK EEEEEEEEGEEEEEEEEESCLMGP MCVHIHPDKDLYSLGPPAQR TGSHAEPT*KARRSSSWTAAS RGCAARDPPRRCSPA
3923	34291	A	3964	157	272	WCNGSPLYSGW*LVGMESLGR MHKDLWTRQPNQDQDLQ
3924	34292	B	3965	1	3723	
3925	34293	B	3966	1	573	

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3926	34294	A	3967	3	424	AGGQALQGGPGQGRGSQGVVG/ PGTGSSGAQHLGKHYPVLSGGS ERSWGRSHTPAGAGC*VRGRR AGGRPGTGHSRPPGGSCLSAP PNSARWLGLGAPWQAGAGLR DPGDWRRGQGGPGWAWCPGQ PPAQPHTCPPNSTARY
3927	34295	A	3968	3	1238	RGAERRAWSRGPACTRRGPAD WAAAGAGRPCPQRRGVCCTAA VPGAARLSCPTGPGDPGRRS LTGQGS*GLGAFFGGWTGALP SWHS*SQGWQTDVPR*VRGTE RDICTGL*QPCPPGGLQTGSGG LEHSLPWP GIGIQAP*GPNHPCR LPRS*ALSAGG\SGGQALQGGP QGRGSQGVVG/PGTGSSGAQH HCCPPYTPPG*HPIPSLLALGPQ SLQPEWAHSGTASGEQHSAGE HGMGTTGH*LPGLCSRCVLGK HYPVLSGGSERSWGRSHTPAG AGC*VRGRRAGGRPGTGHSRPP GGSCLSAPPNSARWLGLGAP WQAGAGLRDPGDWRRGQGGP GAWCPGQPPAQPHTCPPAGS LPGAAPGVLCAA*GPAAGV*A GPGPGPGSRR*TRGPSPGAPRPA
3928	34296	A	3969	3	415	ETGRHRSQQSVSSPPVQPRGKR AMYHSAAELVSRGFPRPPVQAP AEPAGAAEGVHSQPASRQEA/G S/TEVRGQAHRFVSPNAAGAG DG/PDPQSLLAPTNRPCPPGGISP ARSEPVPAPGRAAP*CFPDLPG LAPPLC
3929	34297	B	3970	1	657	
3930	34298	A	3971	125	524	EAEALENQSQPCDTG/PQSAFSP PGSTQHPRSQLSQCKQRYQDLQ EKLLLSEATVFAQANELEK*RV ILS\GEPLLKQDSKQVQVDLQD LGYETCGQSKNEAEQEETTSPE HEEHSSRKEMVLVEGLCSEQG
3931	34299	A	3972	1	648	MGQVWGLVHFTLEVFHTGDEE EQEYSEVTEDEVTEHVLPKA KVAKEEEAGIQQARQEGDLEA WQFPVRIHPPDQQENITATFEPF PFKLLKELKQAINQYGPSPFV MGLLKNTVSSQMIPTDGDPLT RACLTPAQFLQFKTWWADEAS IQAARNAWAQPQINITADQLLG VGGWAGLDAQFVMQDDAIEQ LRGVCIRAREK\IT*CGEQYPSF

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3932	34300	A	3973	350	1078	GSNRRSNRAEQLRGVCIRAW K\ITSGEEQYPSFSIVKQGP REPYTDFIAWLQESLKKVIAD SAAQDIVLWLLAFDNANPDC QAALRPIRGKAHLVDYIKACD GIRGPAGRLSWLSLQGRPAGA ARCTSSSSDWKAQLAPGPHAG PLRCPAFRARQPRLPAVLSAGA AFRDCPLSCVQALLGGSAGPGD RLPGHYSALVALSLPFVKEATM NRWSNRNHRSAFFLFSANAHGA EGVLSHTVASR
3933	34301	A	3974	2	630	WDNCGLWFIPSWNLFTLM MRRKESLMK*QKK*QSRFVC QLKLK/PAKEGEVYPYPSAPP PYFEEKEWPDPPDLSFLEDAG QKVIAPVTVQAAPQAIALSSI QAGIQQARREGDLEAWQFP IRIHPPDQQGNIIATFEPF PKLLKESKQAINQYQGSPFV MELLKNVAVSSQMIPTDWD ALAQACLTLTQFLQFKTL WADEVSIQAACNA
3934	34302	A	3975	264	634	WSSRCQHSSRPQASESW FPG*GPSFWPRIQGDEKTGAG GHP*LG C*PGMTGQGFS TKCQHTCLMWGSHWAQEAPEN APGTSCPGSSGSWVLRSSLQ RQKSAWSPG/ASMPAPKMP FLTPSSGFS
3935	34303	A	3976	3	410	KKKVWREEKERLLKMTLE ERRKEYLRDYIPLNSILSWKE EMKGGQPK*VEENTQETSQV KKSLTEKVSLYRGDI/L*VDA IVNAANASLLGGGGVDGCIH RAAGPCLLAECRNLNGCDTGH AKITCGYDLP AKCEYN
3936	34304	A	3977	74	432	MLHNLRPRTLTRTRCPST PS*TT*ATPPTTTHGSAGPRA AHLRRTGTTRWRAPRRARSCT RSSPRRARAASPPPLAPAREL RSPASPPSCEQSAAPPSGRN GGNFESIFVKTINSN

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3937	34305	A	3978	2	894	WGGYGMRTGPRTLTTTRTRCPS TPS*TTT*ATPPTTHGSAGPRA RTCAAQRTSGSHPSQRRSSAA PGV*RANVFPWAH*MKRV*TT LENLTA/PEMAMPPAPHVIFAT DDWAAMVHPSARVPGLDGTG ALLVPTGVCAPGPCCKPLTSSS VTHTRLKTTLSVPPSARQTGRC RSPDLRCSYPPDEQPVCPKC GSPWVSVLVAWIQSESAVLDPR HPQHPLYLPVDMQNLLTNLGE PPQARALAAKLLGRPSSSQSGS RVPVWAQAGNATYITVHTLC SHNTHMSPVRVKRFTHLG
3938	34306	A	3979	157	570	
3939	34307	A	3980	1	936	
3940	34308	B	3981	257	3934	
3941	34309	A	3982	210	4286	MPLKTRTALSDDPSSTSTLGN MLELPGTSSSSSQELPFCQPKK KSTPLKYEVGDLIWAKFKRRP WWPCRICSDPLINTHSKMKVS RRPYRQYYVEAFGDPSERAWV AGKAIVMFEGRHQFEELPVLRR RGKQKEKGYRHKVPQKILSKW EASVGLAEQYDVPKGSKNRKC PGSIKLDSEEDMPFEDCTNDPE SEHDLNGLCKSLAFDSEHSA DEKEKPCA\KSRARKSSDNPKR T*L*KRATYNFEAH
3942	34310	C	3983	163	309	
3943	34311	A	3984	72	424	RNCGTARSQHEPLGSLQDTP QPP*TLELAGNLPD/F*PGPGK EQGMFVCHPIRQPLRPLPGSSH QSMPTAQPLSSSSALLPALPAG FPVTQGQWTKLQVQAPAPFHL PPQVEAV*AFYQKQMLVPCSL* SMPTAQPLSSSSALLPALPAGF PVTQGQWTKLQVQAPAPFHL PQVEAV
3944	34312	A	3985	1	347	KWQRFVLTGIDTYSRYEFAYPA CHASTKTTIHGLMEFLIHGIP HSIASDQGTHLMAKEVRQWAH AHGIHWSYHVPHHPEVAGLIER WNEGLLSQLQHQLVNRLRRE LQCWLG
3945	34313	A	3986	1	1716	

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3946	34314	A	3987	1	737	MSSVLLRLIYQLTQKTASFEGG PEQKALQQIQA AVQAALPLGPY DPANPMVLEVS VADRDTVWSL WQVPIGESQLGFWSKALPSSAD NYSPPERQLLACYWALVET EY LTMGHEVTMLPELPIMTWVLS DPSSYKPAPMASWGVYPYGQLT EEKTRAWFTDGSARYTETTR KWTAVAIQPLSRTSLKDSNEGK SSHQQA KNGITVLAGVIDPDYQ DEISL/LTPQWRCHPGSSVWRAS SLGISHP
3947	34315	A	3988	2	384	CGRSGYWHSSVATKITRLRML RPREGRLPPGDIMIPLN*KLRL PPGS/FLLLSHQAKKGVTMLAG VTDPDYQDEISLLLHNGGTGKS PHISDTFYGSKVASCQNTGPEK QDETQAQETAVYKSQIFGS
3948	34316	A	3989	3	1273	
3949	34317	A	3990	3	341	GLGRRQPAGSWPERRPGPSA\ R RSTAPRRCGQAES*TERGSQPH QVQQQGRWGVC MKIPSHSGKS PDVSEVSKSRNSIISTAVTHAVV APEGLKRNGGSGHLRSSRGHR AVIF
3950	34318	A	3991	44	243	
3951	34319	A	3992	40	558	LGSIQVMQAVRNAGSRFLRSW TWPQTAG*QMTAPSSPPPPGGL CSYSCPLSHP/SLPVTVRPWSPS FSSQQGRGQNA/APGPSAQALD SSKTLRPSRKLNRTRLPATPSSG EPHLDQPSGDPQPLTLARHPES EPVNFQLCHLLSVGPYANKSEP QPSHLKMRIMLREVV RIT
3952	34320	A	3993	335	581	RRHLFLQWGQRAWRLQVAAA GTTRPTSAMGIRCSEGA AARAT AARA*TAGPEPLE/PAANPPPPL TASALRAPP SFVLPQCTR

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3953	34321	A	3994	216	1159	SWHGPPGANTVAAAAGPEEK AALKLRPTHGWPVRATDVHVDV ILKASGESEWRGGSRAHQMS VAMATALGEGVPVRGPAAGSL RLLPGSSAPLGRDAISSCNGVN GLETTGGRCRHNAPNKRHGD LLEGAAAR/AQAARA*TAGPEP LE/PAANPPPPLTASALRAPPSF VLPQCTAAPRDPSAAGAAN*G KAQSRNC*NEPFAYGGGTHGT GAGAAVTVAADGN*LGSIQVM QAVRNAGSRFLRSWTPQTAG PWPSPSF/VFPAGSWPERRPGPS AQALDSSKTLRPSRKLNRTRLP ATPSSAFTLPFQERRAL
3954	34322	A	3995	1	738	MTKRGHGTAWAVASKSASPKP WQLPHSVEPVGTEKSRIEWP LPRFQRMYGNTWMSGSSLLQG NQNLHAERYCNSTLERNDTPIE SLKPKRESEDGLGEHNGSTMEE VGAETRVQRHWVRVSMTELAL ASDAHMWGSNPGQRTGVMV GECGTMLGDTQVLLSNPCGDR ARRAYSTAPDYAVCGNGGKVK LNEQRFSTNKQGKAAYWME ALRPEPLCWQSNYPEAAAVGK PKAAYTKKLHGEDS*AIPVTE LGERIAQLLIMLYV\KWGKSEIK RT/G/GFGSTNKQGKAAYWME ALRPEPLCWQSNYPEAAAVGK PKAAYTKKLHGEDS
3955	34323	C	3996	87	329	
3956	34324	A	3997	3	122	
3957	34325	A	3998	1	156	
3958	34326	A	3999	1	353	
3959	34327	A	4000	1	201	
3960	34328	A	4001	56	207	EEKKEKEKEKEKEK/EEEEEEEE EEEEEEEEEEEEEEEEEEEE EEEEEEEEEEEEEEEEEEEE
3961	34329	A	4002	1	174	MNRC*RHIYSSNEVH*KEEEE EEEEEEEEEEEEEEEEEEEE EEEEEEEEEEEEEEIPLSSL
3962	34330	A	4003	1	278	MTSYKFTEPKNGIWQLHEAAQ LDTTYNKLNKKEEEEEEEEE EEEEEEEEEGEGEEEEEEEE EEEEEEEEEEEEEEEEEGVIL
3963	34331	A	4004	144	429	DLPREEYALLPAGPRRRCRH RYEPNPEFGAKHSCPA*HRAA PATSDTQE*HRSNAFGEEEE EEEEEEEEEEEEEEEEEEEE EEEEEEEEEEEEETLFSNM

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3972	34340	B	4013	1	3570	
3973	34341	A	4014	1	2347	MELKTKARELHDECTSLSSRFD QLEERSVMEDEMNMENLPTK KSPGPDGFTAIFYQRYKEELVP FLLKLFQSIEKEGILPNSFYEPSII LIAKPGRDTTKKENFRPISLMNI NAKILNKMLANQIQQHIKKLIH HDQVGFIPGMQGWFNIRKSINV IQHINRTKDKNHMIIISIDAEKAF DKIQQHFMKLTNLKLVLEVLA RAIRQEKEIKGIQLGKEEVKVS L FADDMIVYLENPTVSAQNLLKL IGNFSKVSQYKINVQKSQAFLY TNNRQTERQIMSELPFTIASKRI KYLGIQLTRDVKDLFKENNKPL LKEVKEDTNEWKNIPCSWVGRI NIVKMAILPKVIYRFNAIPIKLP MTFFTELEKTTLKFIWNQKRAC IAKSIFSQKNKAGGITLPDFKLY YKATVTKTAWYWYQNRDIAQ WNRTEPSEIMLHIYNYLIFDKPE KNKQWGKDSL FNKWCWENWL AICRKVKLDPFLTPYTKMNSR WIKDLNVRPKTIKLEENLGITI QDIGVGKDFMSKTPKAMATKA KIDKWDLIKLSFCTAKETTIRV NRQPTTWEKIFATYSSDKGLISR IYNELKQIYKKKTNNPIKKWAK DVNRHFSKEDIYAAKHKMKKC SSSLAIREMQIKTTMRYHLTPV RMAIHKKSGNNRKIQ/GGIWCD RIL*R*TTCRVAKEIQSL*RR/W KRLQRTLSIPVLDAV*PPMF*AS
3974	34342	A	4015	1	5073	
3975	34343	A	4016	1	3297	
3976	34344	A	4017	1	3514	MELKTKARELREECRSLRSRCD QLEERSVAMEDEMNMENKREG KFREKRIKRNEQSLQEIWDYVK RPNLRLIGVPESDVENGTKLEN TLQDIIQENFPNLAQANIQIEI QRTPQRYSLRRATPRHIIVRFTK VEMKEKMLRAAREKDRSTRQK VNKDTQELNSALHQADLIDIYR TLHPKSTEYTFFSAPHHTYSKT DHIVGSKALLSKCKRTEIITNYL SDHSAIKLELRIKNLTKSRSTTW KLNNLLNDYW

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3977	34345	A	4018	1	2666	MVKGSIQQEELTILNIYAPNTG APRFIKQVLSLDLQRDLDSHTLI MEDFNTPLSTLDRSTRQKVNK NTQELNSALHQADLIDIYRTLH PKSTEYTFFSAPHHTYSKIDHIV GSKALLSKCKRTEIITNYLSDHS AIKLELRIKNLTQSRSTTWKLN NLLLNDYWVHNEMKAEIKMFF ETNENKDTTYQNLWDAFKAVC RGKFIALNAYKRKQERSKIDTL TSQLEKEKQEQTTHSKASRRQE ITKIRAELEKETQKTLQKINESR SWFFERINKIDRPLARLIKKKRE KNQIDTIKNDKGDITDPTEIQT TIRESYKHLIYANKLENLEEMDT FLDTYTLPRLNQEEVESLNRPI GSEIVAIINSLPTKKSPGPDGFTA EFY/PESYL*QTHRQYHTEWAK TASIPFENWHKTGMPSLTTPIQH SVGSSGQGNQPGEGNKGYISIRK RGSQIVPVCRRHDCLSRKPRL SPKSP*ADKQLQQSLRIQNQCT KITSILIHQQQTNRPNHE*TPIH NCFKENKIPRNPTYKGCEGPLQ GELQTTAQGNKRGHKQMEEHS MLMGRKNQYRENGHTAQGNL QIQCHPHQATNDFLHRIGKNYF KVHMEPKKSPHRQVNPKEQ SWRHHTT*LQILQGYSNQNSM VLVPKQRYRSMEQNRALRNNA AYLQLSDL*QT*EKQAMGKGFP I**MVLGKLASHM*KAETGSLP
3978	34346	A	4019	824	3693	AWKGTDRSTRQKVNKDTQEL NSALHQADLIDIYRTLHPKSTE YTFF/LAPHHTYSKIDHIVGSKA LLSKCKRTEIITNYLSDHSAIKL ELRIKNFTQSRSTTWKLNLLL NDYWVHNEMNAEIKMFFETNE NKDTTYQNLWDAFKAVCRGK FIALNAHKKRQERSKIDTLTSQ LEKEKQEQTTHSKASRRQEITKIR AELKEIETQKTLQKINESRSWFF ERITKSDRPLARLIKKKREKNQI DTIKNDKGDIT
3979	34347	B	4020	1	3765	
3980	34348	A	4021	1	4791	
3981	34349	A	4022	1	3297	

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3982	34350	A	4023	1	3170	MVKGSIQQEELTILNIYAPNTG APRFIKQVLSDLQRDLDSHTLI MGDFNTPLSTLDRSTRQKVNK DTQELNSALHQADLIDIYRTLH PKSTEYTFFSAPHHTYSKIDHIL GSKALLSKCKRIEITNYLSDHS AIKLELRIKNLTQSRSTTWKLN NLLLNDYWVHNEMKTEIKMFF ETNENKDDTYQNLWDAFKAVC RGKFIALNAYKRKEERSKIDTL TSQLELEKQEQRHSPSRQ ITKMRAELKEIETQ
3983	34351	A	4024	281	3030	KPRLNYMKNAEASRADAINW KKGY/LVMEDKMNEMKREGKF REKRIKRNKQSLQEIWDYVKRP NLRISVPESDRENGTKLENTL QDIIQENFPNARQANIQIEIQ RTPQRYSSRRATPRHIVRFSKV EMKEKMLRAAREKEIQTNIREY YKHRYANKLENLEEMDKFLNI YTLRRLNQEEVESLNRPIRGSEI VAIINSLPTKKSPGPDGFTAEEY QRYKEELVPFLLKLFQSIEKEGI LPNSFYEASII
3984	34352	A	4025	1	3290	MGELITPLSTLDRSTRQKVND TQELNSALHQGDLIDIYRTLHP KSTEYTFFSAPHHTYSKIDHILG SKALLSKCKRTEITNYLSDHSA IKLELRIKNLTQNRSTTWKLNN LLLNDYWIHNEMKAEIKMFFET NENKDDTYQNLWDAFKAVCR GKFIALNAHKRKQERSKIDTLT SQLKELEKQEQTTHSKASRRQEI TKIRAELEIETQKTLQKINESR SWFFERINKIDRPLARLIKKRE KNQIDTIKNDK
3985	34353	A	4026	1	3573	
3986	34354	B	4027	1	4251	
3987	34355	B	4028	1	3065	
3988	34356	A	4029	965	4089	TWKGTTSTSRCKIMPKYRSTRQ KVNKDTQELNSALHQADLIDIY RTLHTKSTEYTF/LAPHHTYSK IDHIVGSKALLSKCKRTEITNY LSDHSAIKLELRIKNLNQSRSTT WKLNNLLLNDYWVHNEMKAE IKMFFETNENKDDTYQNLWDA FKAVCRGKFIALNAHKRKQERS KIDTLTSQLKELEKQEQTTHSKA SRRQEITKIRAELEIETQKTLQ KINESRSWFFERINKIDRPLARLI KKKREENQID

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
3989	34357	A	4030	523	3981	
3990	34358	A	4031	1	3429	
3991	34359	A	4032	1	3156	
3992	34360	A	4033	2	4943	
3993	34361	A	4034	1	6747	
3994	34362	A	4035	1	3928	MAAWNLLLSYAYWGGLRKE DFHCLDRKTLRTVSFLAALLSY ESIGGKGKLTTRKDIYTENPSV HHHHQRPKVDKTTKMGKKQN RKTGNSKMQSASPPPKERSSSP ATEQSWMENDFEELREEGFRRS NYSELREDIQTGKGEVENFEKN LEECITRITNTEKCLKELMELKT KARELREECRSLRSRCDQLEER VSAMEDEMNMKREGKFRDK RIKRNEQSLQEIWVYVVRPNLR LIGVPESDVENGTKLENT
3995	34363	A	4036	1	3638	
3996	34364	A	4037	3	3585	SNSHITILTLNVNGLNAPIKRHR LANWIKSQDPSVCCIQETHLTC RDTHRIKIKGWREIYQANGKQK KAGVAILVSDKTDKPTKIKRD KEGHYMMVKGSIQQEELTTLNI YAPNTGAPRFIKQVLRDLQRDL DSHTLIMGDFNTPLSTLDRSTR QKVNKDIQDLNSALHQVDLIDI YRTLHPKSTEYTFFSALHHIYSK IDHIVGSKALLSKYKTTEITNC LSDHSAIKLELRIKKLTQNRSTT WKLNNLLLN
3997	34365	B	4038	877	8907	
3998	34366	A	4039	1	450	QGSPSGSRE*NSQSSAGPQCALP PAMA*VPLSWRSMGKWWKRT SCTSDST*PPSERRHWSRKSPS AMPASFRCSSASAREMLP*KKG RCAAGSGIAPGPPEWGRGTGGC PGKQATCGVSGPNANGEPVL/K YPSSSSEAHGGPGRNGRSD
3999	34367	A	4040	2	522	
4000	34368	B	4041	102	186	
4001	34369	A	4042	2	5417	

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4002	34370	A	4043	45	1585	KQPSGLLKFGNLILKCHPPSLTH MLSQPCA\EAPTDPNWEALVY IHPSSGIMSATVSFWSIGTA\YLE AQGIWEP\FRRRLSFEASNPPFD VGRPFDLRRIVGISSEGNLNTLS CDPGHSRGFCGAGGSSSRPSAG SHKQ*GPSGHPHSSHSNRNSAD VDDVRAYNSGRTSSMTSAQAA SSQPANKTRPLVLDSNTGAQGH SAGRKSKGAKQSQHGSQHHAH SPLEQHPQPPLPPVPQPQEPQP ERLSPAPLAHPSPHERASSARHS SESDITSLIEAMDKDFDHHDSP ALEVFTEQPPSPLPKSKGSTEGG PASTFTQAVDGGIQFFTDWTE GPSSSLLAVAREVQLALCIHELL IHGFSQLQVSGGPGAMPDPAAH LPFFYGSISRAEAEHLKLAGM ADGLFLVRQCLRSLLGGYRQLN GTYAIAAGGKAHCGPAELCEFYS RDPDGLPCNLRKPCIPPSGLEPQ PGSSTACETPWARPSPSSARP RRWRSSLLRRTTSGCPGTAA
4003	34371	A	4044	I	1773	
4004	34372	A	4045	I	663	MALWTLRPTPLLVTCLICAPG VMGAVVAPLTILGGPLLIRAAW YTAGIVGGLSTVAMCAPSEKFL NMGAPLGVGLGLVFVSSLVDQ MGRWVAVAGGA VGLGALCY GLGLSNEIGAIEKAVEYWFNSF VCHSNQQNACSHLHDERLLG DMGLPILHAMLLRRLPSVDSQN ALSSIMLLHTALP*QSAERLFS* TS**EALG*YGFAYPACNASAK TTIRGLTECLIQHHTPHSIASD QGTHFTAKEVQQWAHAHGIH WPYHVPHHPEAAGL
4005	34373	B	4046	147	330	

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4006	34374	A	4047	485	1568	GEGYKADLAAATVECPICQQQ RLTLSPQYSHIPQGDQPTTW*Q VDCIGPLPSWEGQRFVLTGIDT YFRYGFAYPACNASVKTTIHGL TECLVHHHGVPHGIIASVQGTH FMA*EVQQWAHAHGIHWSYH VPHHLEAAGLIEQWNGLLMSQ LQHQLGDNTLQGWGKVLQKG VYALNQCSIYGTVSPARIHGSR NQGVEVAPLKITPSDPLAKCLL PPFKALHSACLEVLVPEGGTLP PGDTTITIPLNWKLRPPRHFG LLPLSQKAKKGATVLAGVIDPD YQDEISLLLHIGGKEEYAWNTG DPLGRLLVFPCHVIKVNGLKQQ PNPGKTANDPDPSGMKV*VTPP GKKNPRPAEVLAEKG
4007	34375	B	4048	182	662	
4008	34376	A	4049	1	2250	
4009	34377	A	4050	1	1326	
4010	34378	A	4051	1	1614	
4011	34379	A	4052	1	2586	
4012	34380	B	4053	1	1954	
4013	34381	A	4054	1	705	
4014	34382	A	4055	1	1833	
4015	34383	A	4056	1585	4128	
4016	34384	A	4057	1	1425	MARG/NAITLPV/CGRAVKFT/L EVLRGDSVEKTSRVWSGNERD QELLTEDALDDLIPSFLTGTGQT PAFGRRVSGVIEIADGSRRRKA AALTESDYRVLVGELDDQMA ALSRLGNDYRPTSAYERGQRY ASRLQNEFAGNISALADAENIS HKAHKYFVFEANTGTETGYQG EESLFNKAYYGGGTNFFRKESQ KLQQSAKKRDAELANGALGIE LNNDYTLKKVMKPLITSNTVTD EIERANVFKMNGKWFADFGT TIKQDFRLLGQTSVDRLLQLSQ GQAVKGNQLLPVSLVKRKTTL APNTQTASPRALADSLMQLAR QVSRLESGQQSSKQKKAQTAI RKNKEANAVLARLNSELQQQL KGFADFREPPIKQDFRLLGQTS VDRLLQLSQQAITELCGAKRV GYFGPTQFYIALKLIAAAQSGLP VRJESIKCGNSYDHDYEFELGTL VLPRSLEGFALS LNCGEHYWL

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4017	34385	A	4058	1461	2496	NKRNHQSVCHAFIRIPAAPMV DSLIARVGV MARGNAITLPVCG RDVKFTLEVLRGDSVEKTSRV WSGNERDQELLTEDALDDLIPS FLLTGQQTAFGRRVSGVIEIAD GSRRRKAAALTESEGTPAFGRR VSGVIEFADGSRRRKAAALTES DYRVLVGELDDEQMAALSRLG NDYRPTSAYERGQRYASRLQN EFAGNISALADAENISRKIITRCI NTAKLPKSVVALFSPHGELSAR SGDALQKAFTDKEELLKQQAS NLHEQKKAGVIFEAEVITLLTS VLKTSSASRTSLSSRHQFAPGA TVLYKGDKMVLNLD RSRVPTE CIEKIEAILKELEKPAP
4018	34386	A	4059	340	2067	
4019	34387	A	4060	1	1959	
4020	34388	A	4061	1	2319	
4021	34389	A	4062	1	1587	
4022	34390	A	4063	964	1757	GYSKSKPDVITLLEQGKEPCVV ARDVTRRQCPAAPMVDSLIAR VGV MARGNAITLPVCGRDVKF TLEVLRGDSVEKTSRVWSGNE RDQELLTEDALDDLIPSFLLTGQ QTPAFGRRVSGVIEIADGSRRR KAAALTESDYRVLVGELDDEQ MAALSRLGNDYRPTSAYERGQ RYASRLQNEFAGNISALADANN ISRKNITRCINTAKLPKSVVALF SHPG/ELSARAASQRQCGYHK LHDKQRLLRG*KGNICAKLLNE
4023	34391	A	4064	1	1554	
4024	34392	B	4065	1	1599	
4025	34393	A	4066	1	682	MKRAPVIPKHTLNTQPVEDTSL STPAAPMVDSLIARVGV MARG NAITLPVCGRDVKFTLEVLRGD SVEKTSRVWSGNERDQELLTE DALDDLIPSFLLTGQQTAFGR RVSGVIEIADGSRRRKAAALTE SDYRVLVGELDDEQMAALSRL GGATQAFKENNQKHTTKRT ASLILHAMICCRSLNSSKTKNT KCLNSINQRLKILSLQKDL MCG TAGRCKTLTEQ
4026	34394	A	4067	1	2448	
4027	34395	A	4068	1	2541	
4028	34396	A	4069	1	828	
4029	34397	A	4070	1	1899	
4030	34398	B	4071	1	1686	
4031	34399	A	4072	1	1437	

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4032	34400	A	4073	1	3417	
4033	34401	A	4074	1	3826	
4034	34402	A	4075	812	2578	FIRDFADFGTTIKQDFRLLGQTS VDRLLQLSQGQAVKGNQLLPV SLVKRKTTLAPNTQTASPRALA DSLMQLARQVSRLESQHSNGN GQVSPIFHQTSSSTIRSCSCHLLT LNFLTQLNTSDIAVFHSTPKLL LVTSTITHMGLNTSQAQSVPI NSVAGSLAALQPQFSQQLHSP HQQPLMQQSPGSHMAQQPFMA AVTQLQNSHKFSHRSHGPGQS NDACSEPTNKKMRRNRFKWGP ASQQILYQAYDRQKNPSKEERE ALVEECNRVWQARRLGAFGKE DVHVSFAARRGAKFRHQTLTG RRSSIPAPMVDSLIARVGVMA RGNAITLPVCGRDVKFTLEVLR GDSVEKTSRVWSGNERDQELL TEDALDDLIPSFLTGTGQTPAFG RRVSGVIEIADGSRRRKAAALT ESDYRVLVGELDDDEQMAALSR LGNDYRPTSAYERGQRYASRL QNEFAGNISALADAENISRKIIT RCINTAKLPKSVVALFSHPGELS ARSGDALQKAFTDKEELLKQQ ACKL\HEQKKAGVGDNSIDSW KNAGRVFKDSDKFDANDPILK DQTQEWSGSATFTSDGKIRFIL

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4035	34403	A	4076	1474	3367	REEGANSECLGRHGFKKMLYV KRDEVGKGQIRLETVFEQAIDQ RFSTDTSLSLTPAAPMVDSLIARV GVMARGNAITLPVCGRDVKFT LEVLRGDSVEKTSRVWSGNER DQELLTEDALDDLIPSFLLTGH KTPAFGQRVSGVIEIADGSRRR KAAALTESDYRVLVGELDDEQ MAALSRLGNDYRPTSAYERGQ RYASRLQNEFAGNISALADAEN ISRKIITRCINTAKLPKSVVALFS HPGE\LSARSGKCMVPTESAPH VTVLGCQCGLPLENGLKEGY LGRSTLDMEAWQPLQEFYLN LITGQMFEIAVTQNNKINSSSP TTEQSWMENDFDELTEVGFR SVITNFSSELKEHVLTHRKEAKN LEKSDGENGTKLENTFQDIIQE NFPNLARQVNIQIEIKTPQRY SSRATPGHIIVRFTKVEMKEK VLRAAREKASLAPENLDNSKIR PVVILFHYGESWNLLRADQRLI FAKSWPRASRYQQGHQDLFILR SDLPSQVFIRDKLMERRNRRTG RTEKARIWEVTDRTVRTWIGEA VAAAAADGVTFSPVTPHTFR HSYAMHMLYAGIPLKVLQSLM GHKSISSTEYTKVFALDVAAR HRVQFAMPESDAVAMLKQLS
4036	34404	A	4077	794	4235	RVSRGRKWFFIALKRMPPAMKK AMNLFLGLSNVRTVHPEGFTV YISTHISFSLSGYRTGLRSFGLV KQKKSPIRMPCVYTNTLCQYR KPDGSGIVSLKIDWIIERYQLPQ SYQRMPDFRRRFLQVCVNEINS RTPMRLSYIEKKKGRQTTHIDL ALKGLRVLLVEGNPQGTASM YHGWPDLHIHAEDTLLPFYLG EKDDVTYAIKPTCWPGLDIIPSC LALHRIETELMGKFDEGKLPTD PHLMLRLAIETVA
4037	34405	A	4078	1	2574	
4038	34406	A	4079	1	536	

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4039	34407	A	4080	368	1449	LKSTNLITFLRLFVPQMPLAYM KFTPSGLVAACAPWLRQRRVV QLGQIAFSAP/YLSQMVRQEMY NRYGESAYEDGYRIYTTITRKV QQAAQQAVRNNVLDYDMRHG YRGPANVLWKVGESAWDNNK ITDTLKALPTYGPLLPAAVTSA NPQQATAMLADGSTVALSMEG VRWARPYRSDTQQGPTPRKVT DVLQTGGQI\WVRQVGDAWWL AQVPEVNSALVSINPQNGAVM ALALLNNARPWYLGAQPRDSTI IFCQFGAHPLLDPKTQPVGCRN AARKSCAEIRLVPDARANSGL VRRYRKYRRQYHKSRSRQPL RQQQPVRLDWRNVNQNQYALT TRFLYQSLQRHAQLNVPLFHVLL
4040	34408	A	4081	1420	1842	
4041	34409	A	4082	407	1347	GRIRVHIHKDGRADGGSQPGVT AIQQQLPFAFAPN*SY*TESAW AQSIK\GPWWLRDQVDGPAGR LAALPQR/SLINAVSTRMEGISG AFNTANPACST*FLCSLLILPSLF STALPNFRLSAMVSDCTISNMV WST/SAVTDWSCPTLD*ERKHR GTARLTGKGVGMDRDKQVST LFLGFCYAHLQWNEDVFIARH VHLHIALFLDQRAQTASYLQYH IFFARFVFPHRTGVFATVARLK HNDNRTIAPCFTRLWTTLRWR HLLFEVAFVVILQQRQQRVLHI LCIGRIEVHHQTLFKPGDRRKG KQLRFYVLL
4042	34410	A	4083	1	649	MRHGYPARANVLVKVGESAW DNNKDYRYAKALPTYGPLLPA AVTS/ANPQQATAMLADGSTV A/LSMEGVRRWARPYRSDT/QQG PTPRKVTDVLQTGGQ/QIWVRQV GDAWWLAQV/PEVNSALVSINP QNGAV/MALVGGGDFNQSKFN RATQALRQAGAHLPASQSGH HQQTAR*KSNFCARM*TPDQLS W**KNCPFRLSPT*QRQWSLRR YRPVSQRTSF

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4043	34411	A	4084	2	551	WRAAGPEPCPTGRQLRP/AGDL ACSAAGPGAEPFTAPLALAGR SKCGAAEPAPTQNSRWPMSPH LSLHASPQAEGAGSGL/VPAPR AAAG*RAPQMMP/VVGAEAE APGP*EPCRHPAPHASQHRYGC HPS/AAEPCRHPAPHASQHRYG CHPSGLNPAGTQHPMPASTGTA AIHRG*TLAPSSP
4044	34412	B	4085	1	1029	
4045	34413	A	4086	1	2157	
4046	34414	A	4087	1258	1838	TQVVFITSAWGLGEMVVQGA NPDEFYVHKPTLAANRPAIVRR TMGSKKIRMVYAPTQEHGKQV KIEDVPQEQRDIFSLTNEEVQE LAQQAQVQIEKHVYGSMPD/IEW/ AKDG/HTGNHGVQALNRNRCPE ARQHRMRIPGRILPRPIGRMAG PKTRIEHTSVTVISNRRIKTEN RGHKGVEDRKLHEDLQLRHQS
4047	34415	A	4088	2806	3540	
4048	34416	B	4089	1	1251	
4049	34417	A	4090	341	946	GLSSVGQSVNDHLPWT*GLSSV GQSVNDHLPWT*GLSSVGQSV NDHLPWT*GLSSVGQSVNDHLP WA*VLSSVRQSIDDHLPWT*VL SSVRQSIDDHLPWT*GLSSVGQ SVDDHLPWT*GLSSVGQSIDDH LPWT*VLSSVRQSIDDHLPWT* GLSSVGQSVDDHLP*M*GLSSV RQ*VT*AKVNPKISAVTRNRGS VESPHEGRSLKVQVFIPQVED MSWGPPWLWVEGESWT
4050	34418	A	4091	426	706	VLGGGSEEKAPLWWSGPMVLP GAHSMKT*LPHTHVEFGFACLA SAGAQDVGMEGPRHTTENSVT GSPSHFPPRASQHRRGICRPHAG RATADF
4051	34419	A	4092	596	905	GLSSVGQSIDDHLPWT*VLSSV RQSIDDHLPWT*GLSSVGQSV DHLPT*GLSSVGQSVDDHLP WT*GLSSVGQSVDDHLPWS*G LSSVGQSVDDHLPWT*GLSSVG QSIDDHLPWA*VLSSVRQSIDD HLPWT*VLSSVRQSIDD/HSSMD VRSV*CRTISR*PSSMDVRAV*C RTINR*PSSMDVSAV*CKTINR* PSSMDVRSV*CRTISR*PS/P*T* GLMSLIPSLCGLSAVTPFSAV TRNRGS\ENHPILKAAASRSKSS FPRLKT

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4052	34420	A	4093	3	1194	SLGPRSHSCCRSDYRSGTTVPL VLLPVCVGPALLVFALLSPLCV VCSALCGGLLPVLRASLFLWCV AFLAGLVFVFGFAFFGSLVRGR FLVVVPFFLLFALCRLLFLVCW LRSFGACPVSVCVAGFACFAGL FLVLVSLSSGFGFRLSFSCVVG SLCLPGFAFRAFCLFFLPCVGP LLAFPGFCGPSSPSLSYGGLFAP WSCALLGFFGCLGWSAPGFLSS FGLSVRVLSPCASGLRSLSGC ALVPGLFLPWVFSRSLRPLVSF GCLLCFSVSHNMDWIKESAG KVIQGNP*WLPVILFFGSVPLTS KAATAKPLMRMG\RALTVSQ T/AVASFAAVYGLFILPT*PTLV GAVQMDDTGTTTRIGKLVSNHP FFIRVLLGVALTVCFGFVLGSF
4053	34421	C	4094	70	1950	
4054	34422	B	4095	262	4347	
4055	34423	A	4096	2	458	
4056	34424	A	4097	2	445	QPTERGLCASLKPSRAAIKSQSS KVISFDSMSHIQGTVVQGVGSQ GLEQQYRSGVAVFRLHSFSHRL LSACEFSRCRVQAVSRSIILGSG RWQPPSHSSTREWPSGHTVWG LQPHISPLHCPKDSL*GLCLCN KLPPENLGFSYVL

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4057	34425	A	4098	1	2589	MVWFLKNVNHGHTHTNAKKYN DVENKERTGWK WGSTEYLLCA RPLRKGNVGLSGDVFLT VFM KTGHSSLLPSTTTSDSTAQEGY ESRGGMLDWKHL DSPDSTDP LGAVSSH NHQDKKAM LKD GEE RPFNEPGVFHLLADHQLTQKV ASIPGS AVCAYDMLDIASVFTG RFKEQKSPDSTWTPV PDERVPK PRPGCCAGSSSLERYATSNEFPD DTLNFIKTHPLMDEA VPSIFNRP WFLRTMVRYRLTKIAVDTAAG PYQNHTVVFLGSEKG IILKFLAR IGNSGFLNDSL FLEEMSVYNSE KKWSTAKPVRVTI LNPQQASF CITLRET V/C*RRKHIWCPPYRC TLQ*HFCPCH\CLSGKETLCRVT GGMKV KADRDESLPYAAMLA AQDMAQRCKELGITALHIKHR ATGGNRKTTPGPGA\SRPSSPCP LGCLK/WQTLFPRRRLRWPQGG RRKRSQLEAQRVIRESYLKGHD QLVPVTL LAIAVILAFVMGAVF SGITVYCVCDHRRKDVA VVQR KEKELTHSRGSMSSVT KLSGL FGDTQSKDPKPEAIL TPLMHNG KLATPGNTAKMLIKADQHHL D LTALPTPESTPTLQQRKPSRGS REWERNQNLINACTKDMPPMG SPVIPTDLPLRASPSHPSVVLP ITQQGYQHEYVDQPKMSEVAQ MALEDQAATLEYKTIKEHLSSK
4058	34426	B	4099	1	1299	
4059	34427	A	4100	95	502	FPEIPQSCREGAPGPAKPGGPRA REPCPNRTAASWGVHCE DGG TVRTGGPL*GRGVHREDGASSP QHPPRRGRGLGHLGPRPL*GQG DAAAAPGHRGKS/GGKGFLPAL RVQRGERGRVSRA VCMWTS CASVPS
4060	34428	A	4101	2	653	DSFGMSVLIKNPRTLFGGKPY VCRECGRGFTWKS NLITHQRT HSGEKPYVCKDCGRGFTWKS NLFTHQRT HSGKLKLYVCKE CGQSFSLKSNLITHQRAHTG EKPYVCR ECGRGFRQHS LVRHKRTHSG EKPYICRECEQGF SQKSHLIR HLRTHTGEPYVCTECGRHFSW KSNLKTHQRT HSGVKPYVCL ECGQCFSLKSNLNKHQRSH TGEK

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4061	34429	A	4102	8	389	LPASASQSVGTTGVISFENTCNI CHFFFLLLFFSSSSFFLPFSFS FRVSLF*IQPLKTTASTVQGRQH SGGYRASPERRADQRAHTGEK P/YVCRECGRGFRQHS LQLSV YPHSFWTQDKRSNH
4062	34430	A	4103	1	740	EGKRGRPFRIIPRAHPFHELQS RLCILKPLHHPTSSCPSS*TPVA PLPSHPCAPH/SARSCPVSDEAA LIP*SMALWARAGLLEAPTLL PAAPDASSPA/MPPSRKLPPPLP L/CPEPLGSPSPAAPSPPAPPGPNA AARPPL/PPSPSAAPGPRRPGAIR PVGPSRGP/PRNSRSLRAPDVH TAPMRCLPSVRPPLPVLSAL/PD PLPRPPSFVPSLPSP/PSSGPSCPP TSAPPGSPRPGFVRLPCLLFWGS
4063	34431	B	4104	48	272	
4064	34432	A	4105	2	622	CPLSPLLFNIVLELLARAIKKEK */LKGIQIGEEVKLSLFGDDLIV YLENPKYSSKLLLELVNEFNKV SGYKIYVHKSVALLYTNSDQAE NQIKNSTPFTTA TSSSSSSSSSP QGIFLTKRLKNF*RGKFKTLVK KNQGDPKKGKNPPGPKMGKN NFGKTPFWAKKI*KFHS\PKKT PPFFQKLKKTGVKFFWAPKGP KGFLSKK
4065	34433	A	4106	39	1043	QKQPVWQRCREIGTLGYCGWK WTLDIHGRGHRILSGGVEIPGP WTEGFIQGRDVGELQEPGLSGR ESIH*GKSYEYECSEDGEVFRV RASLTNHQVIHTAEKPYKCTEC GKVFSRNSHLVEHWRIHTGQK PYKCSECDKVFNRNSNLARHQ RIHTGEKPHKCNECGKAFRECS GLTTHLVIHTGEKPYKCNECGK NFRHKFSLTNHQRSHAEKPYK CNECGKVFSLLSYLARHQIHS EKPYKCNECGRAFHKRPGLMA HLLIHTGEKPYKCNECDKVFG KF\NLTNHQRIHTGERPYKCNA CGKVFNQNPILSRHRKIHAGE NSLRTLQME

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4066	34434	A	4107	3	941	QQHQQQQHFGVQVAIQQQQQ QGGPVQTNQALGPKPQGLMPP SSHQDLLVQQVSPRPPQGPQG MVGPAQVGVQLQHQLHGALGP QGLH*QVFMPQSRVFSSPQLA QQGQGLMGHRLVTAQQQQQQ QQHQQQGSMAGLSHLQQSLMS HSGQPKLSAQPMCSLLQLLQQ QQLLS*QQLHQQQQQQQLQQQ QQL*QPQLHQQQQQQQLQQQ PQQLAQQQHQQQLQQPQINSQ/HL FPSRRPPNHMGLLTHSPNLTAS LRLTSTHKAALGPGQLQAALGHP KDGLLWKTGLGTWRARGLICGTG GIISYFTQHSWEVKVFTTL
4067	34435	A	4108	1	2255	MEKNKVVKREAEANSINLSVY EPFKVRKAEDKLKENSNDVLE NRVLDGKLSSEKNDTCLPGTAP SKTKSSSKLSSCSAIMALSAKK AASDSCKEPVANSRESSPLPKE VNDSQARAPLQSTVMTNAVSP AELTPKQVTIKPVATAFLPVSA VNEMKTAGSRVINLKLANNNTT VKATVISAASVQSASSAIIKAAN AIQQQTVVVPAPSRANAKLVPK TVHLANINLLPQGAQATSELRQ VLTKAQQQIKQAIINAAASQPP KKVSRVQVVSSLQSSVVEAFN KVLSSVNPVPVYIPNLSPPTNAG ITLPTRGYKCLECGDSFAVEKS LTQHYDRQSMRIEVTCHNGTK NLIFYNKCSLLSHARGHKEGV AADTRGQKTCTICQMLLPNQCS YASHQRIHQHKSlyTCPECGAI CRSVHFQTHVTKNCLHYMRRV GFRCVHCNVVYSDVAALQSHI QGSHEVFYKCPICPMACKSAP STHSHTYTQHPIKIGEPPIIYKC SMCDTVFTLQTLlyRHFDQHIE NQKLSVFKCPDCYLLYAQKQL MMDHIKSMHGTLKSIEGPPNLG INLPLSIKPATQNSANQNKEDT KSMNGKEKLEKSPSPVKKSV ETKKVASPGWTCWECDFLIQ RDVYISHVRKEQGKQMKKHPC RHLCQHNRKHKGIRKVYACSH CPDSRRTFTKRLMLEKHVQLM
4068	34436	B	4109	1	411	
4069	34437	C	4110	54	146	
4070	34438	A	4111	1	1937	

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4071	34439	A	4112	1	1830	MCIEVTCNHCTKNLIVYNKCNL LSQARGHKEKGVVMQCSYSIL KPVSAAGHIIVSPSSNSSSSSTLQ SPVGTGIHTVTIKQSGITGTVISA PSSTPSTTAMPLDEDPSKLCRH NLKCLKCNEIFQDKRSLATHFQ QAADMSGQKTCTICQMLLPNQ/ CQRIHQHKSPYTCECRAICRK KRTQIHEWERETGKEISISFEKK SMETKKVASPGWTCWECDFLF MQRDVYISHLRKEHGKQMKK HPCRQCDKPFSSSHRLCWHNRI KHKGIRKVVYACSHCPDSTGTFT KGLMLEKHVH*CMASRTLTK K*QTPPMRRKQK*K*TSRAVP SG\VERTGSGVQASQRSNNSTT EKAENQCF*GSQAPLCCTQVKG TSASAQAKWGWRR*PTGEQTQ PRGRISQWVMSDRKCKVCAKT FETKAALNTHMQTHGHAEGCL KQPCRSLLSQPRIKTEARNLIRN ADFLNSILRNREGYSKEKKNGT GFLGRSARLALGAQGGKSWRF LFWVLLPNVLVLRVGMHDVN HRLINAAGCVSQLAVTLSTEPH GISSAISRVPRHCHPSGENSMAT SLNVNRSISRLAAGSGVLAMD PIPAGHRAJETGLLGTEDTEQ
4072	34440	C	4113	217	510	
4073	34441	A	4114	210	281	
4074	34442	A	4115	1	675	
4075	34443	C	4116	126	434	
4076	34444	A	4117	804	2061	WERREAGGEDEGINIHEP*VEE EMKKHESNNVGLLENLTNGVT AGNGDNGLIPQRKSRTPENQQF PDNESEYHSLGDKSKTSFQNS NNNNNKQQEQQQQNPTFSNTR KLTCLYKAPIPPSIILSGCPNIND SNWQEIHEGMQTAGLPTRPLSH GLQQKGAAFRCLGCKCSEPFTG SLILQKAKTNTQKWQATYPKS QNEQLVPSVGKSYRCSTPAQP MKTAVGHKPKCATGAELPKAL GAQPLHPCALDVGQGFKKGNF GAVGLNGLLGLFHVSGVLL VGPGDGGLISEGVVREDLMCG VWSAGTWSVGTAEKLEKPGA LHVIEGPLDSWDGPVMPNGPV KSRQSSCLDGPRCCSEILTQGS HGNKKPARASSKSSQSINDRPL AVLTNQYQCEQLASERQPSSNS

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4077	34445	A	4118	1	357	GKLM LPGSTRKPQVPVDRKMG HEGVFVWQAGLRARPGPSLPFS HGLTLHLHWPLALPV/GATSSP CEAGDLGV\PLAAGTWCPWEA *RQEEAGWQAPGRAGPARVG WGGTGLTSAEVIITI
4078	34446	A	4119	1	771	MLISHKQLSPQLLSLTLPLSEK AGWAGECPNPPSKDSPVQIG/ GPPP/GYQKCR*DTASMLTMAP CHGPVCPHPGWRPRSGSRVIL PAPPGHHPWPGRARNGLGTF QGCSTGWQVQETCFPGGGWL DRHLVGPAATGARCLPAARGP/ DGALHPAVPTGKLKGQ\GPGA RHQRTYD*LPRPCGAAGLGSP A*HPISEETENQWGLHGPPQPA WARPDHGCQ/APTLSPSLKRKP GRVTAGGPMPCFSTSSVPTT
4079	34447	A	4120	1	402	MLISHKQLSPQLLSLTLPLSEK AGWAGECPNPPSKDSPVQIGD LHQLPKMQIRYSIHADDGSVPR AAHKRGLRKRTLKTISLPRQES AFPFHGQGGDPGVVPGSSFLHP LGTTPGQGRARNGLG\PSRAA PPAGRGVAGGSPSGG\PAATGA RCLPAARGPVGPYTQQSQRAS* KGS LGPGARHQRTYD*LPRPCG AAGLGSPA*HPISEETENQWG LHGPPQPAWARPDHGRQPLRC HPP*RGSGGPQKA AVSQQIPR AGQEGTH*DPTWGPDPGDQG GPRESCRGLQGGRGQCLCDWS PNTSEI*YPHA*NGD*KAG\PPM DTKSQLQVSTPKSPASHGEDVA RLEEPEASGD/RSVP\GLPGASLI PIWRPPFSRISVRTFLPSPWNLL RDCGFLGTSLASSSGRVTA
4080	34448	C	4121	111	218	
4081	34449	A	4122	2	453	WWPVLSVPPECRLPGRLPSG*V RGPAPWWPEASQDKSQLSSR GFPKG VSLGKGMAFSPLQTAP* KWLGLSPPLSSTENTASRGHTS PSSRNGFDSQPRDSRTGRECQA TQLPAQHSHA EVLHFGGAMSG QLSLVGPQDSKRTARLTDSQ

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4082	34450	A	4123	1146	1775	KGWLEGAPEA*ERYPG\PPCVV CSLSDAPWVGHPAPSLGV*EP NPP*SRGESQGPTSSICRQSSGD LG*KLESPIHTVIPRHTSQARQG HTAPFPFQVPS*LLV*LKAVSL APAEAP*PASGLHAPWPVAPRV TCAI/PAKGTTVPAGPAELRPVS PPILLP/PDSRSSAFPSRKGPASP YETCSPTS*/EVPS*TYKSMGP GIRLPALPASRPVSEGPGLSEH PEGPPALPPAIPFS\SPSWFKQCS FSIRPGWLLHGAPQGGKWPQA SWVGKTG*PEKRGSPRGPEHSA LNLRLVALPGVAV*EGPACVGW GGPPQPPGAICEATAPPSI/VPPL SLPAPFPGTLP/PPTPAASP/PPAL PLLRRGRPRPCAALALPALSSL FS/PPVFSLLSLQLPADRVQVH PVLRAPGPPFRPPKQIPSSSGDL PFPSLPGR/PVL*LEKWLPAPK ASPPSSVNLILLVVVKLNTFRCG PLVKNLVPPSVVCPSPSYKYL *ILIYIHTLHMQPPSPSSAGNQ SLCYPCCGLVAQPTKRTLVPPTI QLQSVPPPVP/KPPCHARPVDSQP PPSLPPPTKHGGAVQAAVWPDS FYPVLLSLG
4083	34451	A	4124	146	1701	TFLGYLETAHGPSAQQCPTGLF AFRSLGRGLLLTSLPKQPARSPP REDVPRSTTQEMTRPRHPPRPK AQPLGARRRGAPV/RGLSKSR ELNSGNTSDSGNSFT\PPHPRT GPCWRISPPPAGAESQGDAMLL ARMCQMPSLGLMSRTFPHSST GKARGFQSPCLECAEVKKSSLV PSTARSSPMKGCSSSSYASTRS SSHSSQSPNPRASPRVRTIITCIL *TRKRPRETKSSAKVT\HYYSSK SGKRSPPSRSSRSRSPSYSRYS PSSPNSPADIPQNSHPQPSASTD RPHIQSPQFLPTHQGLRNIHVL PAAPALL*CPPANADTPAQAP PPLRY*QPSQTLTAAPSSSLRSP LRQRADPIP*PSGGAGSQIQWK DSQQRERERARRRRRSYSPMR KRRRDSPSHLEARRITSARKRPI PYYRSPSSSGSLSTSSWYSSSS SRASRSYSRSPSRSRSRRRSRRT RTSSSSSRSPSPGSRSRSRSR SRSRSRQSRSYSSADSYSTR

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4084	34452	A	4125	1	1068	MLLLELNAPEHVLETINFQTLT AFCNTFHILRPTKAPGFVYAWL ELISHRIFIARMLAHTPQQKGW PMYAQLLIDLFKYLAFLRNVE LTKPMQILYKGTLRVLLVLLHD FPEFLCDYHYGFCDVIPNCIQL RNLILSAFPRNMRLDPFTPNLK VDMLSEINIAPRILTNFTGVMP QFKKDLDSYLKTRSPVTFLSDL RSNQLQVSNEPGNRYNLQLINA LVLYVGTQAIHNIHNGSTPSM STITHSAHMDIFQNLAVDLDE GRYLFNAIANQLRYPNSHTH YFSCTMLYLFGRRANSRPFQ EQITRVLLERLIVNRPHPWGLLI TFIELIKNPAFKFWNHEFVHCAP
4085	34453	A	4126	1	984	MQANLEMAGNGVTSMEPL AIPHIYCCSEGTCNFSNTENHCL RAALSMLLNGTPFAFVIDLAAL ASREYKLDKWLTDKIREHGP SVHGLFPSRVLSPALPGAFPG RHNCGSCVAPQSGLPGVHPVEL PWSISKLFRLRSPANFSDVLGSR SKVLLLMCTLK YCGMQLGADA TRVDMLTFLPTLGFI RNNDYTD DTKASELTEL SHNLHAYDSVTG VPGDETECKTVSTWAYTAESL QGYMAAKLLGRNLTVPSRYLF LNAIANQLRYPNSHTHYFSCM LYLFAEANTEAIQEQT/RLVRE RI*S*ANAYWHSEKFYQFTCEL
4086	34454	C	4127	1	399	
4087	34455	A	4128	1	868	MANVCNPSTLGGRGGRITRRPE DPGSPVYSVPPASYHPKPWLGA QPATVVTPGVNVTLCRAPQP AWRFGFLFKPGEIAPLLFRDVSS ELAEFFLEEVTPAQGGIYRCCY RRPDWGPVWSQPSDVLELLV TEELPRPSLVALPGPVVGPAN VSLRCAGRLRNMSFVLYREGV AAPLQYRHSAPWADFTLLGA RAPGTYSYHYHTPSAPYVLSQR SEVLVISWEITLAPPTTPGGT*S AWGWPGWSSSPWARWSLLTG AVRTALLFPQVPHRATTPWVT SYDWVWLP
4088	34456	A	4129	1	270	
4089	34457	B	4130	39	919	

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4090	34458	A	4131	3	466	GRALCPPRLLAAGRVLGPGRRS PG\PGPGVP/GG*R*GGAEP RP APRGRVLPPSAGSQFSAATPA QNGLPALRGPGRPGIRSKAVR PVPLGRVGVYFRDALRASGQS GRKLCCIGNTLSPTSFSVGKEVP RKHETNQKHEKGILCMEAVKP
4091	34459	A	4132	1	1647	MWRWLYAGARMTVRDKQPLE QMLAGCTHASLVPTQLWRLLV NRSSVSLKAVLLGGAAIPVELT EQARDMGIRCF CGYGLTEFAST VCAKEADGLADVGSP L PGREV KIVNNEVWLRAASMAEGYWR NGQLVSLVNDEGWYATRDRRE MHNGKLTIVGRLDNLFFSGGEG IQPEEVERVIAAHPAVLQVFIVP VADKEFCHRPVAVMEYDHESV DLSEWVKDKLARFQHLVRWLT LPAEPKNGGIKFHVS AKRVGAL TTRMEAAQQHADDKIRQMINS EQRLSEQFENLANRIFEHSNRR VDEQNRQSLNSLLSPLREQLDG FRRQFRTASLMKVAGWDYLM NSLYNANSSALVNRVRYKWIA AFEGGFTGIVATLDTGRPGPVM AFRVMDALDLSEEQDVSHRP YRDGFASCNAGMMHACGH DG HTAIGLGLAHTLKQFESGLHGV IKLIFQPAEE\VRVARGRWSMQ VS*MMLIILLPCTLALAYLRALL CAAVIILWQPPNLTRTSPVPPLT QAQNQKTVTMPCWRTSHSCT ACNRPAQR RSFQS
4092	34460	A	4133	864	1128	TGRSTIRRQRREPRRKAATLRF DRNGCRARCTPP\GRKEQRYQQ TADGDKGAEFYRRPEGVEIVA VMEQRDEVIQADKLAGETKRI DAL
4093	34461	A	4134	618	1102	HSNAAPTARSSFVQNT PSSCGY SRRAWRISSIPEETDRTSYRNIQ CGNHPPVPARLPAGQTGDGDIP PRPRWQSPQTAPRKPPDLP/LIR KNKIPMFRSATTQPLTG TIAK ASSEVKAIIGARVKMTRSENF GIQSSLKNILIMSATSWSEPPQP TRLGP

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4094	34462	A	4135	2400	3201	VGGGRNRS PGVACWVEDGNG DAVRD GWALDADWQASQAM RRKQQPE\YWQHDAATADADR QMNMPV\LHRALVAGRAQEM NGAQQKTLLKGWDEASARRG TKTED\FCEEDTRDDAMIAWM PR*PGVLPRADAWANVLNHGV GWKKAQLK\STWMPQVQQ*W RGD\KAANSNAAVAHTVLLN SGGDATQ\TAAFPISPLSV/EEV CVTMVIA*FWMWDSGSGGVVL CSSSGRSLTWSATKVRG/SGH KGRWCSRQGVTCQVRHGGHV APH
4095	34463	A	4136	118	1008	
4096	34464	A	4137	3	1140	KHTYMLSILKPVRTSALPPPAP AQTLC TQLSRVSSRL*DHPSR WGLR/PSTGMSQARACSPGSLG WMQRSSFTPGAGRVRHIPN\SA GSTRRPACGSRSAAPVRPCRR TR*G/RSSVVERFMTALSLACR ALPGP*AAPGPSITRRFTISAELK DTRL/PREHVPLVCTHAIAVPD RGA AVRPTRRRDAAAPPSPLVG DVTLCQPSQ*RGSNAPDQVRLP CVG*RPRSSLQRSGLSVFSADGS TSGPEPASGRKDAGWPARVLR GTLSRGAPEAGADWGPYSPGSP GAAASGAPWLGPQALQGAG GQLVGSENGERTGTKPRVSVS VAYGEIALPADTSWSSRAGAA VLLGLSRSTGGEGPGNMGHGG QSQMLTLEVL
4097	34465	A	4138	10	585	PLEMELNLISIEVWGERLGISTG TEKMPTLKHRTWPVECSKASSL EGDLRSL/S*LEVISAFSADPASA DDSPGCWKKKDDCSMVHLHR QEWQQQCCQ*K*RKQPPGER RNKCGSHPVCGTVLWQP*QTH\ QISSCPTVGCPPSHSSFSILDGAN AGQEKQSTTEPEPALFLLPPSRG AFGPFGLLSDLRRQL
4098	34466	A	4139	1	474	
4099	34467	A	4140	458	612	ASCMASVDISVLTCMWRCTIEQ SSSFLCLLTPLWE*SWCHVTRIC PFISLG

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4100	34468	A	4141	1	829	MGRPDLILSSILGLRWLLLPQSS RAGRGAIREASDAEQVTFSGG TVPARTSSGREWRSLLGPDME TSLFCIDTKTTLFVYRYGDHIP LVPEQSGLEPLLIWADPGLFHV RLFHLLTIDDNFCGLDMNAPLG VSDMVRGIPVFTEDRDRMTSVI AYVYKNHSLAFVGTSKGLKK /VRSSAAP*VWDQDTPRSLGQQ GAQRQP/ILRQCVYTFQNLN*RC PHSTARRELRTGGFIPTRSHQD GLRSAARCTQGTQ*ASWSCV HVCASVRAMCSYC
4101	34469	A	4142	5	237	NFGAMTRIR/DLPWEINPLSSCS SLCEKDPPTTSSPQTN*PKEHHT NFQSETGDEFYPWTQNFSTGHG LGKTVFPWCL
4102	34470	A	4143	1125	1190	
4103	34471	A	4144	306	573	RNFGAMTRIR/DLPWEINPLSSC SLLREKDPPTTSGPQTNQPKKH LTNFKSGKRPLLTLFSNLSHCPS TTFPPFFNLISLLISIPFIW
4104	34472	A	4145	1	329	ASHSWQTLQHSGRYSRSSG/SA GSPRDCAARAPTISPGCAMA WLNLDSISPSSQSKASPLSQLTCPET SYTGCP*SAPHSPPPWPQERC ACKGHCLHHRDGCCGYGYN
4105	34473	A	4146	2	336	SILTRCKYGMIEPT/NIPGLGA AGPTGMFFGSAPSPMGGISPAM TPWNQGATPAYGAWSPSVGSG MTPGAAGFSPPKA/PTYSPTSPG YSPTSPTYSLTSPAISPDDSDDEE
4106	34474	B	4147	1	1260	
4107	34475	A	4148	150	335	SFQQSAPW*ASGQSCASDPAPP ATARGRFGPHQSQAFHSRHSPIP DPLPPPCSGGWGHSRW
4108	34476	B	4149	1	3267	

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4109	34477	A	4150	1528	2973	GKQIFSLIIPGHINCIRTHSTHPD DEDSGPYKHISPGDGTKVINNW LLIEGHTIGIGDSIADSKTYQDIQ NTIKKAKQDVIEVIEKAHNNEL EPTPGNTLRQTFENQVIAVVGQ QNVEGKRIP*LPPPL*WGAGRR EGVG*CGRFSEHSRSSAAGYRG GRPCC\PSWEDDP/GAPDPPAS AQIPAPTRSGCVRCSARPSGPP AECAAGPSHWYNQSGTSSQKP CWKA*AYPGSGTQSRSGSQR SHP**SEAESGA*SQMESACPRR SAVQRQQ*PDSQTSAECSLG WAPAHCCVPSR*PLLRPAWPS* *CSECPGKS*NQQWSPQCQ*YD PNPQSTVVAEDQEWNVYYE MPDFDVARISPWLLRVELDRK HMTDRKLTMEQIAEKINAGFG DDLNCIFNDDNAEKLVLIRIM NSDENKMQEVMGVLEVSVSHV
4110	34478	A	4151	459	940	HLPGGGVPGREGGSPDQHVAP GAVSGGAGGGSTRGRGSRRRR PGRPRPGPRQPRRGALPGGEHG LRASARCAARAQQRDPG/TPSC SSWACPTPRRPWAPAASSRLRR PPRGACATPPPCRPPARRTCTG RCPSPCCLCGSPTTWRRPPPTG GALESPKRR
4111	34479	A	4152	264	1386	SSRCQPVCESGHPGYGQSPA/YT TAGRTESGGTGST/GDNHPLWP CI/GGAPCPAQNTPHLRVCV*RS ALALDSAGSSSPESPH*RASIPH TTLGQKRRSWAGTAHS\PMAPC AAASISTST*LSHHHSPAAQSVC PSSHTTSPFCPIQKFHCFR/SPQR NTS*VVLCPPGG*LRVG*WPSSG HDRSWYHTREPSVGN*HRSHQ RR*RGTAAPGPSARLQCPARG SRSSHAPASSRRPFGSTPAG LGFP SARFPVGKPVVPAALMNR PTRGERRFAYWAPGWFFFPVR RATADCPSP/SWP*ESCKRSTL VCPSRRKSCLMVVPKSAKSPVL AK/YGPVGHHDHGTEDVVLGE VQGKRVPVPTMGTPKHKA VHP RAPH
4112	34480	B	4153	52	363	

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4113	34481	A	4154	321	802	HLPGGGVPGREGGSPDQHVAP GAVSGGAGGGSTRGRGSRRRR PGRPRPGPRQPRRGALPGGEHG LRASARCAARAQQRDPG/TPSC SSWACPTPRRPWAPAASSRLRR PPRGPACATPPPCRPPARRTCTG RCPPSCCLCGSPTTWRRPPPTG GALESPKRR
4114	34482	A	4155	15	263	CGRFSEHSRSSAAGYRGGRPCC \PSWEDDP/GAPPDPPASAQIPAP TRSGCVRCSARSPGPPECA GPSHWYNQSGTWKCKG
4115	34483	A	4156	3	518	SPSVGSGMTPGAAGFSPSAASD ASGFSPGYSPAWSKPGVPGVP QVPSKPLKSLHPGGVVRHLGQ VCFLHSSG*VCPLLISFVGCFPT GGAMSPSYSPTSPA\YEPRSPGG YTPQSPSYSPTSPSYSPTSPSYSP TSPNYSPTSPSYSPTSPSYSPTSG SYSPTSPSYSPT
4116	34484	B	4157	620	6763	
4117	34485	C	4158	430	870	
4118	34486	A	4159	1	3039	MDSETRRTAKVRLMTVLRDQ DRVSGVQAHPEQFQQAICPLCG VSLTRSGTTFGSPSEIYSPLGESR ASSGLPRRDGRLIGEEPPEKKFS RSPKGD/LSSGQRIDYRVCVPT KFNL*VLSF*PRGQGAGGQSPG FSVRLLVLVWSSGTFV*NGK* QKLL*TLCECVHD*GVQGPASG SPVCSSTAKATEFEKDPSGPFSS SSLPLTPYISFSRVTASSASPLG SALTPQTLKRKGRI*AICL*VVE TPKVFR
4119	34487	A	4160	1	772	MVARAFLWSQVIRRLGRKGGL SQGDRGCNTALAEGRDPDLT RGHPALCLPRRPAPRPAEVRRE GEAEQPEAGQPPGAAPRRARD NGAAAAAAGRLLQSVRPVV CPHPGPQASYGLRYIAKVLKNS IHEKFPDATEDELLKIVGNLLY YRYMNPVAPDGFDIIDMTA GGQNNSDQRKNLRSTAKVLQH AASNKLFEGENEHLSSMNNYLS ETYQEFRFKNVTFDIIATEDVGI FDVRSKFLGVEMEKVQLNIQ
4120	34488	A	4161	174	444	YHRHDSWRNTRR*IKLDGKGE PKGAESEATSKYTAAKLHEK GVLLDIDDLQTNQNAVNDFSV GPQDEVIVEDITNCYLCEIFKRY EWVT

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4121	34489	A	4162	379	520	GTSHRGASQRRCCPPLSKTGPK TPCGKGAPSAP*QGGLDVQGEPT GGKIGDSSGECVGGNVAGLHK GGGTRADSQVPGGMRGGRMS Y/GG/HLTAEGPMGRSGPR/GAV PSLYPPGFSGSCSRQYSGAHM PILTGHVGSSESLDPPRAGQD RFLGTARP*GTSHRGASQRRCC PPLSKTGPKTPCGKGAPSAPFIP AGPTFDHKALM
4122	34490	A	4163	455	798	
4123	34491	A	4164	32	2109	WIGGCPGSQPDATAIMGWTLA PHSSRCHRCCHYRCHCRCLCP AEMTVGRPEGAPGGAEGSRQIF PPESFADTEAGEELSGDGLVLP RASKLDEVLSQEEIDPTSDSTG SIYHTLLDLAQKGRWLSVWSLS FSLTQRVMKTSCLKMRRTWRVS SKTRTGGWCRSSARRL*GVAPQ GAA/DSLNNLPSNIPRPTQPPS GSRPPSQHRSVSSWASSITVPRP FRMTLREARKKAEWLGSPASF EQERQRAQRQGEAAECHRQF RAQPVPAHVYLPPLYQEIMERSE ARRQAGIQKRKELLSSCLKPFSF LEKEEQLKEAARQRDLAATAE AKISKQKATRIPKSILEPALGD KLQEAELFRKIRIQMRALDMLQ MASSPIASSSNRANQPRTATRT QQEKLGLHTNFRFQPRVNPVV PDYEGLYKAFQRRAAKRRETQ EATRNKPFLRTANLRHPQRPC DAATTGRRQDSPQPPATPLPRS RSLSGLASLSANTLPVHITDATR KRESAVRSALKKNKADESIQ WLEIHKKSQAMSKSVTLRAK AMDPHKSLEEVFKAKLKENRN NDRKRAKEYKKELEEMKQRIQ TRPYLFQVAKDLAKKEAEQW YLDTLKQAGRRKTL*ETRVKA PGLFKRKRPKSRIFPGSKKLQNS ASEIQSR/RLEGSLEQPASPRKV LEELSHQSPENLVSLA
4124	34492	A	4165	251	637	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
4125	34493	A	4166	1	1344	PGRTRTSMEDVFLSAPIPRGC ADGRDADPTEEHMAQTERNDE EQFECQELL*CHVQVGAPEEEE EEEEDAVLVAAEAVAAGWM LNFLCLSLCRAFREGSRDFRRT RNSAEAIHGLCSLTACQLRTIYI CQFLTRIAAGKTLDAQFENDER ITPLESALMIWGSIEKEHDKLHE EIQNLIKIAIIVCMENGNFKG AEEVFERIFGDPNSHMPFKSKL LMIISQKDTFHSFFQHFSYNHM MEKISYVNVYLSEKSSSTFLM KAAAKVVESKRTRTITSQDKPS GNDVEMETEANLGYKKKC*LT NSLR*LNPQRVQYPY*GSHKNL FLSKLQHGTTQQDLNKKERRV GTPQSTKKKKESRRATESRIPVS KSQPVTPKHKRARKRQAWLWE EDKNLRSGVRKYGEGNWSKIL LHYKFNNRTSVMLKDRWRTM KKLKLISDSED
4126	34494	A	4167	1	1345	IPGSTISCLKGQYPSEPFNMAED VSSAAPSPRGCADGRDADPTEE QMAETERNDEEQFERQELLE QVQVGAPEEEEEEEEEDAGLV AEAEAVAAGWMLDFLCLSLCR AFRDGRSEDFFRTRNSAEAIHGL LSSLTACQLRTIYICQFLTRIAA GKTLDQAQFENDERITPLESALMI WGSIEKEHDKLHEEIQNLIKIA IAVCMENGNFKEAEEVFERIFG DPNSHMPFKSKLLMIISQKDTF HSFFQHFSYNHMMKISYVN YVLSEKSSSTFLMKAAAKVVE KRTRTITSQDKPSGNDVEMETE ANLDRKRSHKNLFLSKLQHG TQQDLNKKERRVGTQSTKK KKESSRRATESRIPVSKSQPVTP KHRARKRQAWLWEEDKNLRS GVRKYGEGNWSKILLHYKFNN RITSVMLKARWRTMKKLKLIS SDSEDWIVFVKL
4127	34495	A	4168	3	378	LTSGSRADQEGEGEAGEGR ASSSSSSSPRGPHHPLHGD AEHRPGHPLCSPDLTVAYQM PEVPAEDM/SDPSFCSARQGGQ RGLDSGPGAPWSSSHSPHSRFQ EASHGACAGWRWCRQEEL

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4128	34496	A	4169	1	1044	SGQEVNKEDGQADVQDDHHA DEDGVGDLARQPHLFHLHLRL CRQCGLLPRLLLGPRLGQPSSLS LAGLGPGLGFGDDGLGLQLGG GLACRLGASERGGGLQRGGGRG RGRGLPG/GPRARAGPQRVGA RAAWCAQHSCGSPGKAPPAP A/TGAGGACRASMAMRSVAGR AGLRRPAPSDGVTDRLPSPGGS PFQAP/EAQQA\VLGHPGPGPLG LRGRPGR*RGATLGPRGLT/PRA AAGSRGAAVGGPLRRRPGRGA PAGSPSPGSPAAAGASDIPDLA GRSPEPAPWPKCEQCWTPGWQ PGRPVPLPQLWPWRGLSISGSM PLGEGLEDGSDPMTSCCLPGT
4129	34497	A	4170	1	732	SLTQAGTVSLGLDAEQEVFVP FSAVLPMVAPNDLVFDGWDISS LNLAEMRRAKVLDWGLQE LWPHMEALRPRPSVYIPEFIAA NQSARADNLIPGSRAQQLEQIR RDIRDFRSSAGLDKIVLWTAN TERFCEVIPGLNDTAENLLRTIE LGLEVSPSTLFAVASILGGLCLS FNGSPQNTLVPGAELAWQHR VFVGGDDFKSGQTKVKS\VLVD FLIGFRLQRP/VSIVSYNHLGNN
4130	34498	A	4171	1	908	MEKAPPQTQHEGLKSKEHLPE QTDEGKTEYRRVPSLRAVVLFR QRSCIENILRACVGLPPQNHML LEHKMERPGPSLKRVPVAAT YPMLNKKGPLVWEVSPATLFA VASILEGCAFLNGSPQNTLVPG ALELAWQHRVFVGGDDFKSGQ TKVKS\VLVD\FLIGSGLKTMSIV SYNHLG\NNDGENLSAPLQFRS KEV\SRSNVDDMV\SNP\ML YTPGEEP\DHCRMGRNLPE*GSS
4131	34499	A	4172	85	529	ECGARPGSSTRPPARLSPRLFCS AIRAALKTRPAPALACTWRTG* RASLP\TRCAGSGLGTCTAEGS EGCSHPG\LTGTG/RQEACPGT APAGSPSCLHPRGRPRCPPGTL APRMSCPWPRSPPLTRYLPSGE NLQSKLES\NTSEKF
4132	34500	C	4173	215	324	

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4133	34501	A	4174	2	505	YKCEVCDKVFNQ*FLVCHNR CHTGKKPYSCYECGKTFSTSS FTCYRRLHTGGKPYKCEHNK TFG*NSALVIHKAHTGENPCKC NECGKVFNQKAHLARHRLHT REKPYKCEECEKVFSRKSHLER/ HKLKRGGVALV/C*ECPTVYQN TSCLRSLSCSYPMSLNG
4134	34502	A	4175	1	6192	
4135	34503	A	4176	2	3389	
4136	34504	A	4177	3	875	GEEAALSLCMHSTDDATRLGA RDTEPLWHVPAQ/ARLSAIGS SGNKHPSR/QDAAGKDSPNRHS K\GSKPSAGSLRLSSREGEDRTA WTGPRGAVEQEVTGPDLC*GR GQQGLLVGT**EQKRGQGKP QYSSHSSNTLSSN/ASSHSDD RWFDPDPL/EPEQDPLS/KGCM SLAK/APRPAKPHKPPGSMGLC/ GGREAAGRSHHARR/REVS APAVAGQSKGYR/PKLYSSGSS TPTGLAGG/SRDPPRQPSTLWH RTWYL/YHTASAAVHRGLCRE LEQADQIPPSWYGRPRMGNS
4137	34505	B	4178	108	318	
4138	34506	A	4179	103	540	RRGCESHKTLRRGTSWGLDAR GGGPGPGQVSAGRDAEVWLS TCDRGHALSGSVEELLFLQN/G ARTER*EGPGEWPRPPPGGLASP ALWRFWAEQVGGSFQELES CARTARGSSRTWGSILQNSSWLF QDLGLHLAEGCFLETP
4139	34507	A	4180	33	896	KITRHCTAPGKIRIVPKESQEST PQQDGAPGPGRATSCSARWSPR SWKSHELFCKMEPVLEEPRA VLQDGAPGPGRATSCSARKGR GPEKPVQGLPN/GSVRAHSGGR AAPQSPRGHGPGRG*TAAPLP HLCPLTPVLLQG*GPD*WPLGW ATMRPLPLRAQPAPPPHWM LTPSAPPGTGKPGGGRGQTSG SCVPATDPHCRLSAPSPGKLGGP CDFLEPP*QRTTNWGSSEAGSP KSRCPRGHVPSGGSKGGIFLSL HFPGAPQSLEFPQSQPHGLIGAS
4140	34508	B	4181	1	625	

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4141	34509	A	4182	160	1149	FASERMKVEPWRA GPGRRAWS EGAGQAPQKRARAGAEPQLPA TPALPGGKMVARRTKLA\RGTR RT\YPEPTV\YAAIPIKFSEKQQA SHYLYVRAHGVRQGTKSTWPQ KRTLFLVNVPPYCTEESLSRLLS TCGLVQSVELQEKPDLAESPKE SRSKFFHPKPVPGFQVAYVVFQ KPSGVSAALALKGPLLVSTESH PVKSGIHKWISDYADSVDPPEA LRVEVDTFMEAYDQKIAEEEA KAKEEEGV PDEEGWVKVTRRG RR\LCSPGLRQPACGCWRGRDG SAA\KRAAQLRLAASREQDGA SSAA\RK KFEEDKQRIELLRAQR KFRPY
4142	34510	A	4183	2	361	GTMVARRTKLA\RGTRRTGIPS PPC*A\AIPIMCSEKQQASHYLY GRAHG IQGTKSTWPHKRTIFA FNGPPYCSEQESLSCLQSTCGL VQSVKLKEKLELGWESRSKFFH PKPVPVTEEQ
4143	34511	A	4184	917	1128	
4144	34512	A	4185	1	660	MAWQMMQLLLLALVTAAGSA QPR SARARTDLLNVCMNAKYH KTQSPPEDELYGQ/C/SWRKNA/ CSFTSTTQEAHKN/TSHLYGFN WNHCGEMVPACKRHFIQDTCL YE*PPNLGPW\RRYA WLPGIQE LAEELNFPVGSAGSNPSSSSIQ WVPGILEPEPFSTKISQVDQSW RKEWVLNVPLCKEDCEQWWE DCRTSYTCKSNHGKGNWNTSG SNKCQVAAA
4145	34513	A	4186	216	781	MDMAWQMMQLLLLALVTAA GSAQPR\ SARARTDLLNVCMN AKHHKTQSPPEDEAVWPDP/W MCKGSCRKTKSWNI/HRKSKCE VGLA/WEACSVSAGTGRGPC GRWVGAPQGP/CPRKCSSG*PT W/VQRSQNMEEMAVVNQSWR KERILNVPLCKEDCERWWEDC RTSYTCKSNWHKGNWNTSAPS AVCDPLL

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4146	34514	A	4187	3	625	QCRPW RKNACCSTNTS QE AHK DVS YLYRFNWNHCG\KMAPDC KRHFHPGTPALYE/CAPHNLGA WDPAGWIQSWRKERV LNVPLC KEDCEQWWEDCRTSYTCKSN WHKGWNWTSGFNK\CAVGAA CPTF\HFYFPTPTVLCNEIWTHS YKVS NYSRGSGRCIQMWF DAS PGATPIEEV\ARFY\VAAMSGAG PWAAWPFLSLALMLLWLLS
4147	34515	A	4188	1	268	EQGRH/GSSTPVGPRGGPR\GAE HAPKHQGC GDRAGPQVGMDQ RRRDPPRAPAAPRPWCGQRAA LSSLGGSHLCDDA*VQPSAGLG KVLKF
4148	34516	A	4189	2	1632	WKRCPLPRAAATFPGSGGAG GARREAGGRAPTPGPASPTAR GHARNSPAPARTAGRTGSAGA WQTPCPAPLFPM SAGLPAACH WNPV*LRALKTG/LEGVLGGS A DTQHN RVTDGSLAPNAA CVYT PKINGNRHPNTCTKMFI VSLDA KGKKWKQPTVHQQRKRETCG LHPRKCLQYTPS*WSTTTGILPS RTPRISCVQFVKKKL GQAGLLG HPGACLLCTLP*PAGVGTF LFP RGC*GVVH*LEHTTCG
4149	34517	A	4190	2	87	
4150	34518	A	4191	3	291	
4151	34519	A	4192	112	286	AWLLWLTS LPWGS LYALALLA NKPAL*SLLLRYTLLPHHQC EKVPRWNEPQPTLFP
4152	34520	A	4193	1	933	
4153	34521	B	4194	1	999	
4154	34522	A	4195	135	1160	VWALVRSTLELFHTDDEEEGE YDEVTEEVTEQVYLP AKAKVA QEEEVHPYPSAPPHY YFEKEW PDPPDLSFLED TGRKV VAPVTE QHLE RL LSVLFRQEF SRLDERD DAVEQLRGVCIRA WEKITSGGE QYPSFSAVKQGPKELYADFI AW NLLRQESLKKVISDSAAQDIVL QLLAFGNVNLDCQAALRPIRGK AHLVDYIKACDGIGAKQDSERF AFTIPVVNNLQPAKH FHYFTDG SSNGKASYSGSKGQNQQPIWIL SRHLKPYHEPDAKEEIPGG/CPR TPWLQPCRD*C*GGP*/PVTSNT R*TQPPTWGQIKKLSQMVEENL RKAGQLVTMTVYWN

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4155	34523	A	4196	502	578	LV*EDCIAERAEVLRNESYGIIID WSP*GMFSLNCTSQSACHGHT MFSW
4156	34524	A	4197	2	408	
4157	34525	A	4198	3	853	LLKVIMSAKIFTKKENSTERL CGDGEKRGPDFRTERSVWLLR LEEAVAMVQGRSRAPE SRVVA QVLTLLDGASGDREVVVVGAT NRPDALDPALRRPGRFDREVI GTPTLKQRKEILQVITSKMPISS HVDLGLLAEMTVGYVGADLTA LCREAAMHALLHSEKNQDNVP IDEIDFLEAFKNIQPS/LVFEASL GLMGIKPVDWEEIGGLEDVKPE VKTAH/WSLRQKSGHC/RSCAR LPTGLLATLGSGSGSGRATEAV SGPAG*KRASIGGSSQRPRRFT
4158	34526	A	4199	266	370	AERINSITVFSETLKRFLQASGK *FHRDIHNSRN
4159	34527	A	4200	1	1780	MGDVNQSVASDFILVGLFSHSG SRQLLFSLVAVMFVIGLLGNTV LLFLIRVDSRLHTPMYFLLSQLS LFDIGCPMVTIPKMASDFLRGE GATSYGGGAAQIFFLTLMGVA EGVLLVLM SYDRYVAVCQPLQ YPVLMRRQVCLLMGSSWVV GVLNASIQTSITLHFPYCASRIV DHFFCEVPALLKLSCADTCAYE MALSTSGVLILMLPLSLIATSYG HVLQAVLSMRSEEARHKAVTT CSSHITVVGLFYGA AVFMYMV PCAYHSPQQDNVVS LFYSLVTP TLNPLIYSLRNPEERSHRGVKL NECNQCFKVFSTKSNLTQHKRI HTGEKPYDCSQCGKSFSSRSYL TIHKRIHNGEKPYECNHCGKAF SDPSSLRLHLRIHTGEKPYECNQ CFHVFR TSCNLKSHKRIHTGEN HHECNQCGKAFSTRSSLTGHSN IHTGEKPYECHDCGKTFRKSSY LTQHVRTHTGEKPYECNECGK SFSSSFSLTVHKRIHTGEKPYEC SDCGKAFNNLSAVKKHLRTH TEKPYECNHCGKSFTSNSYLSV HKRIHNRWI*/YYCRNFWRKAL IDLSSLR*FERAHTGYISYLLQH
4160	34528	C	4201	18	182	
4161	34529	A	4202	1	389	
4162	34530	C	4203	114	548	

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4163	34531	A	4204	122	735	LRAQQQHN*VLT LHKPACTLST TS*K*LHKIRK*LWHLRDRAPFI FTSEMEYFITEGGK/NPQHFDQF VELCCRAYNIIRKHSQLLLNLE MNSYNGYVGLLHNILQLEREG LATKEELQQNFPLSVSLPFDQS INQISEHRS LIFNGQYPYGSCWF RQAVCKLIQKYAGEWGWATA ELRAEIDLNVLKFTIQVLSWKV QASLQ
4164	34532	A	4205	139	4496	KMAYSWQTDPNPNESHEKQYE HQEFLFVNQPHSSSQVSLGFDQI VDEISGKIPHYESEIDENTFFVPT APKWDSTGHSLNEAHQISLNEF TSKSRELSWHQVSKAPAIGFSPS VLPKPQNTNKECSWGSPIGKHH GADDSRFSILAPSFTSLDKINLE KELENENHNYHIGFESSIPTNS SFSSDFMPKEENKRS GHVNIVE PSLMLLKGS LQPGMWESTWQK NIESIGCSIQLVEVPQSSNTSLAS FCNKVKK
4165	34533	A	4206	1	3150	MEKPRPLEAPSAWPQDDVQCG VTVGMDGAAVRANRTPWPQD LEQTKWIEIKKSAFTWSSQLSL NRGFLTCKDENNNAGLLRVSS YSSREDQLKNIASDSL FMLPGG LCQSPTGTSHCSNQMETQGQGS PGGAVRGDKALGPEKARQGCG MNGSGKYCKFRVLAIQKPEC LATLMQPD LGDSPGLREMN VV EHLRASFPVEQWYWRGGQRGE AEGARSSKAENNTSLICNFRLD YAPIEKQWDLHFADYFAEDLK
4166	34534	A	4207	1	1203	

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4167	34535	A	4208	1	1470	MLHSRGFLAEVFGILARHNISV DLITTSEVSVALTLDTTGSTSTG DTLLTQSLLMELSALCRVEVEE GLALVALIGNDLSKACGVGKE VFGVLEPFNIRMICYGASSHNL CFLVPGEDAEQDGTGTSGIGAQ KKKMYANNGAIDRKLLFEATF VTIEKCCDTNQGDDTHALGQ PIRGHDKSLAGSFCYACRSEEG LSQYRAYDSRGQLIAVKDTQG HETRYEYNIAGDLTAVIAPDGS RNGTQYDAWGKAVRTTQGGIL TRSVAEYDAAAGRVIRLTSENGS HTTFRYDVLDRLIQETGFDGRT QRYHHDLTGKLIRSEDEGLVTH WHYDEADRLTHRTVKGETAER WQYDERGWLTDISHISEGHRV AVHYRYDEKGRLTGERQTVHH PQTEALLWQHETRHA YNAQGL ANRCIPDSLPAVEWLTYGSGYL AGMKLGDTPLVEYTRDLHRE TLRSFGRYELTTAYTPAGQLQS QHLNSSLTYRHANFAL
4168	34536	A	4209	757	907	RRYCRITVRWQSM/WADNRIA VDAHYPYR*CRS/GRVTEKND/ LIPKGVIRTDDETRHYHYDSQ HRLVHYTRTQYAEPLVESRYL YDPLGRRVAKRVWRRERDLTG WMSLSRKPVQVTWYGWGDRL TTIQNDRTRIQTIIYQPGSFTPLIR VETATAVMDRILKDHQIVVDIP HGEAWLRDDEERPMLIAGGTG FSYARSILLTALARNPNRDITIY WGGREEQHLYDLCELEALSLK HPGLQVVPVVEQPEAGWRGRT GTVLTAVLQDHGTLAEHDIYIA GRFEMAKIARDLFCSEARNARE RLFGDAFAFI
4169	34537	B	4210	1	3258	

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4170	34538	A	4211	281	1571	CQCPGAACPTTSCRVIPHWAY DEADRLT/HRTVN\GETAERWQ YDER/GWLTDISHISEGHRVA/V HYRYDEKGRLTGERQT/VHHPQ TEALLWQHETRH/AYNAQGLA NRCIPDSL/PAVEWLTYGSGYL AGMK/LGDT/PAANLDIRIPYAT DPA/GNRLPDPPELHPDSTLSM/W ADNRIARDAHYLYRY/DRHGRL TEKTDLIPEGV/IRTDDETHRY HYDSQ/HRLVHYTRTQYAEPLV E/SRYLYDPLGRRVAKRK/DRTR IQTMYQPGSFTPL/IRVETATGE QAKTOR/RQLADTLQQSDGED GGSVVFPVPVL/VQML\DR\LESE SSADRVRSFISLANQSKCVEHA Y*RWQCHLGVCWWSSHQIPAV PLTGSVTRWHCHLASSEAGSV AWLPHLSEGHSNRTSSPELLRS RMCAWHTLSAQSVHLVSLYIL EILALMNSINSL
4171	34539	A	4212	311	788	
4172	34540	A	4213	29	395	RIFHSV\GVAAHKGGVYKTSVS VHL\AQDVAEIT/LLEGNDPQGT VS*YQGPGRTLIPLEAALRNIAH SLSIPPKIFAAPTLRHYPALFFC GHS LFAPHIELLEAGTVLQLPQ GPWSSPTS F
4173	34541	A	4214	1	1033	MKMPEAIATKEKIDKWDLIKIK SFFSTPKETINRVNRHHTEWEDI SAIHLSDKGPISYIYKNLTRFTR KKQPHYKVGKGNEQTRILESH HLLKGLASTPFDSEGVRTERRD IHKDILTQWLLTSYSARKLGLK STGHAGGIHNWRIAGQGLSFEQ MLKEMGTGLVVPFTAENARSC IRAYFYDIHETLCRQEEMALSV VDDHVREKLIWLRQHEDMTI LLSEVSAACLHCEKTLQQDDCR VVLAKQEITRLLET LQKQQQF TEVADHIQLDASIPVTFTKDNR VHIGPKMEIRVVTLGIGMGAG KNLLSLF*V*NRVEFHGSPFPTI WFLTWETVGFLK
4174	34542	B	4215	414	1022	

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4175	34543	A	4216	896	1626	NATTIRYEHQRVLKAAQYLHQ QGITRCNSSSTLTSAPGRVDSP PTSMIVAPALIIRFACFTASISEL CVPPSEKESGVTLRIPITHLMRE LTCRLIRDKSATVTGSHTLVVA RHCCYAAPGGCCLLANWLKPG LFGPIGVLSRRGTSVILPIGGFY QWNPMICPNGVVPMQHG*RRG LAQERPLEEWLPVCRDMLNAF FLPDAETEAAMTLIEQQWQAI AEGLAGAQYGDAVPLSLLRDEL AQRLDQERISQRFLAGPVNICTL MPMRSIPFKVVCLLGMNDGVY PRQLAPLGFDLMSQKPKRGDRS RRDDDRYLFLEALISAQQKLYI SYIGRSIQDNSERFPSVLVQELI DYIGQSHYLPGDEALNCDESEA RVKAHLTCLHTRMPFDPQNYQ PGERQSYAREWLPAASQAGKA HSEFVQPLPFTLPETVPLKRYN DSVRAPTCAESRAIFTSTRNNTL QLFFNANFRRPWARGLATNVN DRRASVDHQIRMFHRIYQVRM RATIRKGIRRDVEDPHYSSDAG TYLSPNSRQISNGNWQSHIGRSP SLLLCRTWGLLFTGKLVETRFI WPNRGVIPTGNERVIAHRRFLP MEPDDMPQWRCPHATWLAEA KMFDSLAKAGKYLQQAALMI GMPDYDNYVEHMRVNHDPQT PMTYEEFFRERQDARYGGKGG
4176	34544	A	4217	838	1575	CFFLSPSPSPSPSPNRSQTTEEE TKRQE/ERERKEEEEEKKGR KETKKRRNRQEGKQHRKEEKE GEKQTKQRTETERETKRRRENE QAKAHKGTRKRKEEQKKAKA ARRRTHKRQNPSRGREGTHPK QRQGKEE/VNRQNKEEAKQKR EEAGRTRR/EDRGRKDDKKERR QQQTEKKAKPKAEHGQERTDT TTKKARQREGRPSERRRREREE/ MSKHDPQNRAEKTNEEKEEGR QHER*TKQSSTGI

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4177	34545	A	4218	1	692	MNALHAEALEMTSQFDQELAA KFEADHEMALLMNKDFDRDRE EQRRLAEQARREHEERIKREAA EQARRDAEAKHKAEIÉAAAARR EAEKARAELAERQRIEAEQRA EREKKETEERARREKEEAVAAE RRRQEEAEARLVEEQRKAAE EARRAADKEHRRTVNRR/GLRR SDCSGHPRRIRTESSAGDRWRQ SAGRAHQILRQT*THTSLTTAS KNGAGLSSNSPTRKRS
4178	34546	A	4219	3	1120	
4179	34547	A	4220	1	831	MVKARKIMETPQPAWEMRVRI CTVDWSKLNPIPDFFSLIKSEK KYDHPSELIVDESNLRVVYAPSR YFASEPKADVSLILRNPKAMDS ARNQALLEGYFSFTATEDQLEQ AKSWYNQMMMD/SPEKGKAFEH GNMPA\QMLLQVPYFLRE\ERE H*IIITPILHMRKQE QSG*/RNLP KAAQLSMMQDLQTLLMAASY CSELGHVATQFQGM LACTRNP NSWDRNSETSGKAEGFIPMQLG DVADPSVRCSSVSSLWGHSSPK LLRSVCMANRICVKLQRWT
4180	34548	A	4221	1	1503	
4181	34549	A	4222	1	1113	
4182	34550	B	4223	1	760	
4183	34551	B	4224	1	1755	
4184	34552	C	4225	1	4215	
4185	34553	A	4226	1	3240	
4186	34554	A	4227	1989	2144	
4187	34555	A	4228	1	1203	
4188	34556	A	4229	1	4767	
4189	34557	A	4230	31	512	EYRKSPDIRPIVIQHGEAEITH HFR*QELADKTLIFEITHREMQR FQPVGTGDIREPVFVFFRWRLT NPFNILEHGEPEGIRVDAAVPR AVIGGLEDHIGVAVQKLQHKTF RYFPFIIQMVKDGVVPEGRPAF VHHLSLFLRIKILAHLTHTNTQDF
4190	34558	A	4231	369	918	RPGMSNPWRDLFRTGVDPTND RLSALVEI/YRMMRPGEPTTREA AE/SLFENLFFSEDRYDLSA/VG RMKFNRSLREEIE/GSGILSKD DIIDVMKKL/IDIRNG/KGEVDDI DHLG/NRRIRSVGEMAENQFRV /GLVRCTGTVPFPLHQKCEYH L/PQRPVASTLSRYF*HFRLRNF SMPRANEIKKGMV

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4191	34559	A	4232	3	1012	SVVLKIVERVDGYFSPPLFLGA AFGSHVRSRALPDPCVLFRTI YLCVLASVARTFSPLLPVSRKK HITPLGGFQLHETHLCLQDCRTI ILRPRLGEFGNKFSQLVDITDLH INQHGLAHL*KESARGQYSLLL LGMVSLCALILILWRVVYRSVT CPLADQTQALHRLLDGDIVSPF PETAGVRELDITIGRLMDAFRSN VHALNRHREQLAAQVKARTAE LQELVIEHRQARAEAEKASQAK SAFLAAMSHEIRTPLYGILGTA QLLADNPALNAQRDDLRAITDS GESLLTILNDILDYSAIEAGGK NVSQSYVARLEPVAASGWHK YPWLN
4192	34560	A	4233	1	502	
4193	34561	A	4234	1	653	
4194	34562	A	4235	2	300	YALATPPLSV/INQWQLALDKG QLPTF/VAGLAPQHPQYAAMHE SYWPYSALR/EILQRTGMLDGG PKITL/PGDDTPTDAVVSPTS NSHGR*VPTLGGVWGL
4195	34563	C	4236	40	105	
4196	34564	A	4237	355	526	
4197	34565	A	4238	116	949	RPGTGRC SAVQLPVLLLRGPHS SHTVGTHMVDLDSGQLCVYP GNSDEMPAATQARERLLADT AKKKAQIAELQSFVSRFSANA* KSRQATSRARQIDKIKLEEVKA SSRQNPFIREFQDKKLFRLALE VEGLTKGFDNGPLFKTLNLVLA EVGENLPVLGTNGVGKSTLLK TLVGDLHPDSGTVKWSENARI GYA QDHEYEFENDLPVFEWM SQWKQEGDDEQAVRSILGRLLF SQGDIKKPAKVLSGGEKGRML FGKLMMQKPNILIMDEPPTHP
4198	34566	A	4239	1	319	MVKKMARAPMILVALANPEPEI LACRHGRKEVRPDALICVTPGRS DYPNQSETNVLACFPANVHRIPQ AASHLRAHQSRIPISLMSISAKIL TYLLANQIQFLVKQH
4199	34567	B	4240	263	1390	
4200	34568	A	4241	1	323	
4201	34569	A	4242	3	1855	

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4202	34570	A	4243	2	964	LLKHGVSLEYIQDKEGLSALDLV MKDRPTHVVFKNTDPTDVYTW GDNTNFTLGHGSQNSKHHP VDLFSRSGIYIKQVVLCKFHSVF LSQKGQVYTWGHGPGIGRLGT WEMNRHAWVPRLVGRD*MVII VSPSWPAKDHTVVLTEDGCV YTFGLNIFHQLGIIPPPSSCNVPR QGLHNRQNRYPVPVGSAGPTS MEPSKIRPTGLKFSLTQQQSEI DLGCSSLCWDYRREPLRLAYW FIKKDIAKDTDEETRRHGVSLYI QDKEGLSALDLVMKDRPTHVV FKNTGSLQFQSIPSCRESQILSEK QGDLFREEPMFGS
4203	34571	A	4244	1	725	FRVDPVRKHFGLFYAMGIVL MMEGVLSAC*HVCNYSNFQF DTSFMYMIAGLCMLKLYQTRH PDINASAYSAYASFVIMVTV LGVVFGKNDVFWVIFSAIHV LASLALSTQIYYMGRFKIDL RRAAMVFYTDICIQQCSRPLYM DRMVLLVVGNLVNWSFALFGL IYRPRDFASYMLGIFICNLLYL AFYIIMKLRSS*KVLPVPLFCIV ATAGMWACALYFFFQNLSSW
4204	34572	A	4245	1	833	MKPVVWATLLWMLLVPRLG AARKGSPEEASFYYGTFLGFS WVGSSAYQTEGAWDQDGKG PSIWDVFTHSGKGKVLGNETA DVACDGYKQVEDIILLRELHV NHYRFSLSWPRLLPTGIRAEQV NKKGIEFYSDLIDALLSSNITPIV TLHHWDLPLQLQVKYGGWQN VSMANYFRDYANLCFEAFGDR VKHWITFSDPRAMAEKGYETG HHAPGLKLRGTGLYKAAHHII/ KAHTL*VCFHAADKGIPETEEK RRLNWTYSSTWLGRFHNHGRG
4205	34573	A	4246	1	672	GTQNAVNG/VIFLSWGDVKS FWIYRGGRKREGPLFHA*QFLI YTIHRAVGSINIYVIANYLKFI TPGVIDICTSLIAGILTIKFLLI NQFEKQKIKKGRDITSARIMSRI IKITHVGLVLLYGEHFGMSLSG LLTFGGIGGLAVGMAGKDILSN FFSGIMLYFDRPFSIGDWIRSPD RNIETVAEIGWRITKITTFDNR PLYVPNSLFSSISVENPG

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4206	34574	A	4247	1	347	PLRPGQPGPGGAGT/RALRAPPLPSSSELCYGGQPGRWPRCPQFPSLPPHSS*LLHTGHWPCITLGYCFIPILRAAPPLPCKCASPVL\SC TYPLPAAPSLPVLVHTSIKCFCHLQ
4207	34575	A	4248	43	446	VLPAVPRPGQ/PPCVPAVQAPPPRPSPGWSQATGSPGAGAAPSWR\GLPAVPGHTAGVLGPGPPGQRQPGPGGAGTQLCGPHLFLRLNVA YGPGQPAL/RNVPLQTAPALTPSPQHLLCPFLSTHLLNASVFIC
4208	34576	A	4249	1	1521	RIPESRLPTTAFVQAPWARGSSGLRRWEKHAGQQVGGWWARGPGVRGRQAAGGGAAALTCRGGAGSAVRSCAGLPSLASGSAGCRLHPSYSFGFKVGS/PTVPAALSS*STS/RGREHGGVTVPVMTQNPRSPDGPAREDCEAIA*GTGWL\QQGIGTRPPGTGLGRAR\GAPA VPQWNPNV\KSCQGGPHPNRLPSHGPSSGEAGRGW/RGLQITPQL/PEVTHRRVLPGDHPATEAGGFGTG*PGLPGRVPGPGVGGTYQAKALTPLGPVGLLAPASCAQLQQSADGPGATGHL*ELAESQRRQPTG\PPQLAVSGWATVPGVPAAPRPFQPAQQA/SVPTPSYWA/GSPGAAAWPESHRR*ACDWAW**VLPAVPRPGQ/PPCVPA PVQ\PQSHRGPAHDGARLY*GLPQAEQLHPGGGLPAVPGHTAGVLGPGPPGQRQPGPGGAGTQLCGPHLFLCFLNVA YGPGQPGRWPRCPQFPFLPPILSWNIFGVGTQKKKKKNQSFLKKKKKK
4209	34577	A	4250	167	582	RSLGLAVTEMVPWVRTMGQKLKQRLRLDVGREICRQYPLFCFLLLCLSAASLLLN*RRSAEPGRRL/SL/LKVQTPGPCCLTVRRPRS CGTG DQWGERAPQRSGLGEHGGASRPEAQAGGVGLIASFPFPEASSPELPFSHP

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4210	34578	A	4251	402	1465	DLILSHPTAWFTIKYKPKQLGL QELFPQGHSCAVCGKVKCKRH RPSLLENYQPWLDLKISSKVE\ ESLSKDLELVLENFVYPWYRD VTDDES FVDEL RITL RFFASVLI RRIHKVDIPSIYNQETIKSSNESI *KWIVKARQKVKNTEFLQQA LEEYGP ELHVALRSRRDELHYL RKLTELLFPYILPPKATDCRSLT LLIREILSGSVFLPSLDFLADPDT VNHLLIIFIDDSPAEKATEPASTL VPFLQKFAEPRNKKPSVLKLEL KQIREQQDLLFRFMNFKQEGA VHVL\QFCLTVEEFNDRILRPEL SNG*NAVSS/WKNCRRFIKHTV WMKVLT KLDLIPSLVEEIPR
4211	34579	A	4252	1	1232	FPGRRFRLVVR LGAEAA SERQ VYSVTMKLLLLHPAFQSCLLLT LLGLWRTTPEAHASSPGAP AIS AASFL*DLI HRYGEGDSLTLQQ LKALLNHLDVGVGRGNVSQHV QGHRNPTTCFSSGDLFTA HNF S EQLRIGSSELHEFCPTILQQ L DS RACTSENQENEENEQTEEGRPS AVEVWGFGFLSVSLINLASLLG VLVLPCTEKAFFSRVLT YFIALS IGTLLSNALFQLIPERSYKNKAQ VDSLPTFLAQAGMLLWRVRIR RRVVDPIRESWMLPFTKIPLWG YGLLCVTVISLCSLLGASVVPF MKKTFYKRLLLYFIALAIGTLY SNALFQLIPENRRKWWQPVHN TFGGSTAWHTDKSIEQSIDTLFD EVKKESEKETPSLQIGDLGPQES LKTFNNTNSPHH
4212	34580	A	4253	3	924	VGACTAAARPLPIQLQPILHHR GEKSQLWAHSGSSWGFLAVAA VPPSHLC PPLQSRGWKRPP/PLA SAGVLPGCCCCACLVSPSLAQ P AG\LGPKPAAPLGGPWVSVAP CSRPGPCPGTRSPA/P*GHPAMG R\GVHEPRVGPAPPEKAIITETG AGLAERRGQGLGGGSSFRSAEP QGCRSLGPQSPGGDPAHTILRPP SQNGDCAEMHACRLHPAILGT HGTGGLAAQSHAPRALLPSCPS SQQPADGWCSLHLCPLGLLAP RIHGPSTREGGPGHGTGPPTNP ASSGATRGRTRVRPSVPRSPTL

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4213	34581	A	4254	1	318	VADPVGAARAGGQPLAGR VPRAGGGHSPRVLGAAGPGPHV CTLRLPGTAIRTEPGAPLACAR AWPGSSPAG/PECLPTSC*P*EG QEPSSHVASLPWGPVGGETQ
4214	34582	A	4255	1	718	FFFFFFSFCLCHLYWVSPTPGPHG KLANMANWAPWPS*GLSKLVG KHSCPAG*LPGHARAQASGAP G/ISPDSSAREA*ECT/PCGPGPA APSTRGECPPSSSRPHS/SQQDP GRCSFAPAVPQDAGGQGHWCC APATGHSAPRGCPPARAAPTGS ATPAPPPAACAASSLSMVSAPS R*TTGIASSGTSIPETKHQGT PGTAPAGT/GPGGSTGPKA/PGPAP AHPTRLAGTSGHTAPPTCPPAV
4215	34583	A	4256	702	1026	RSGRTQRAAGVSGSALHQVQS WP\HLKISADQRAGLLF*EHPFP PSASSGCLDVSISSYPVGS*FIN GMARANGRWKTFTGLHSGKPL GFSDAFCQHNLILCWKTW
4216	34584	A	4257	170	1049	RGSGCSAELVPSSRWPRGSRAG AAAGTETPG*PRVYVPAGNGE AGGPGAAWARAAALPGTAA GPPRPAARPGAAPARGGPAPGA PAQALPR/TPTWPAAR*AQRAP SPPSWGSAQPGHPGDLAAGVG RGAGGGHSRRGRHHHVRSLAD LLQLPGAAEGAGDRGHLPGPD/ GERS*AASSFSAAGRAAGTASC CSAGGTPPSPCTILSTSSSLAH VASSS/RRRAEGDTKVS/RGRAE GQDSETGREPGVLHRGSGRTQ RAAGVSGS/RSAPSPVVATTSSRS LLTSVQGCFSENILSP
4217	34585	A	4258	178	556	QSPQEHFHPECGRRDILCQVRQ EIRWPNPGEVHHGLGLEICPVWI LQLHLALRTRAPEHPLQVHRPG GGAV*RGVPPPLRLQACDGPE VPAAGRPRPARSSPGQWPP*/PA AVAPPVTERPPTPSAA

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
4218	34586	A	4259	5	1044	TGRILDGWHWAKELRLDCPLG DSRRPPFSRVSTEGSPAFLALRL PNVTAGS*EVSMLASTETPLVIT RPSPG\GHDPGPAPRGAAASPA GSPAP*QKSPRPLSAAAPLLAS DPAPPRAAAPADTESSVQPPA APHAGPWT\PSAPGPLDVHSPPP \PSRGPVQSSAEPHNRPSGAT RPRP\PPRGAAASPAGSPAP*QK SPRPLSAAAPLLASDPAPPRAA APPADTESSVQPPAAPHAGPWT LERSWAP*RSLPTPIPADPLCR APLSHRYP*GDCQRSGLCHTSP GRASHLPGPGAHKRTPHACWL PLECHRRSPHP*THPSG*PGPSP QSFFPEFLGSGP
4219	34587	A	4260	2	576	CLVNSTTRRSFQLRLVPVPKFQ PPHMTVR*LFNFGRLTATTFS/ LRKSYAVREAYELQNCPPPPF QNGYMINSDYSVGQSVSFECYP GYILIGHPVLTQCQHGINRNWNY PFPRCDAPCGYNVTSQNGTIYS PGFPDEYPILKDCIWLITVPPGH GVYINFTLLHTEAVNDHIAVW YENLSSQNICDCDQQF
4220	34588	A	4261	1	837	MWAGNAWRAALSGVPCGRSA QSVLAQLRGILEGELEGIRGAG TWKSERVITSRQGPPIHVDGVS GGILNLTSVRFIRGTQSIHKNLE AKIARFHQREDAILYPSCCDAN AGLFEVLLRPEDAVLSDELNCA SIHIGICLCKAHKYHYCHLDVA YLETKLQEAQKHRLFLVATDG AFSMDGDIVPLQKICRLASRYG ALVFVDECHATGFLGLTGQGT DELLGVMGQVTIINSTLGKALG GASGGYTTGPGPLVSL/RAQP YLFSNSLPPAVVGCTSKAL

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4221	34589	A	4262	1	2142	MIILIDAEKAFDKIQPFMLKTL NKLIGDGYLKITRAIYDKPTA NIILNGQKLEAFPLKTGTTRQGCP LSPLLFNIVLEVLAQAIRQEKEI KGIQLGKEEVKLSLFADDMILY LENPIVSAQKLLKLISNVSKVSG YKINVQKSQAFLYTNNRQTESQ IMSEFPETIATKRIKYLGIQLTRD VKDLFKKYKPLLNKIKEDTNK WKNIACSWIGRINIMKMAFPR WELNNENTWTQEGEHHTLGPV VGWGKRGGIALVDIPNVNDKL MVLEVLARAIRQKKEIKGIQLG KEEVKLSLFADDMIVYLENSIV SAQNLKLISNFSKVSQYKINVQ KSQAFLYTNNRQTESQIMSEFP FTIATKRIKYLGIQLTRDVKDLF KENYKPLLKEIREDTNKWKNIP CSRIGRINIMKMAILPKVIYRFN DIPKLPMTFFTELEKTTLKFIW NQKRACIAKTILSKKNIAGGITL PDFKLYYKATVTKTAWYWYQ NRDIDQWNRTEASEVTSHIYNH LIFYKPDKNKKWGNDSLFNKW CWENWLAICRKLKLPFLTPYT KIHSRWIKDLNVRPKTIKTLEEN LGNTIQDIGMGKDFMTKTPKA MATKAKVDKWDVIKLSFCTA KETTIRVSRQPTWEKIFAIYPS DKGLISRIYKELKQIYRKKVTNN PIKKWAKNMNRHFSKEDIYAA NRQMKKCSSSLVIREMQIKTTM
4222	34590	A	4263	1	1989	
4223	34591	A	4264	1	1104	
4224	34592	A	4265	1	879	
4225	34593	A	4266	1	1659	
4226	34594	B	4267	1	1500	
4227	34595	B	4268	1	1962	
4228	34596	B	4269	1	1716	
4229	34597	A	4270	1	1152	
4230	34598	A	4271	1	4752	
4231	34599	A	4272	1	2790	
4232	34600	A	4273	1	3477	

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4233	34601	A	4274	1	1007	MLDASCHRTSDSKFFSFGVQTG FLTPELAHLVGPCDRDHNSSPA REQNWTENEFDELTEVGFRKW VITNSSELKEHVLTQSKEAKNL EKRAIKQEKEIKGIQLGKEEVK LSLFADDMIVYLENPIVSAQNL LKLISKFSKVSQYKINVQKSQA LLYTNNRISQIMSELPFTIAMKR IKYLGQQLTRDVKDLFKDNYKP LLKEIREDTNKWKNIPCSWLGR INIMKMAILPKAIYRFNAIPIKLL *TFFTELEKTTLNFIWNQKRARI AKTILSKKNKAGGITLPDFKLY HKATVTKTAWYWYQNYRIDQ WNRTEASEITPHIYNHLIFDKPE
4234	34602	A	4275	737	2460	RIKYLRIQLTRDVKDLFKENYK SLLNEIKEDTNKWNIPCSWIG RMNIIKMAI/LPKVIYRFNVPIK LPMTFFSELEKSTLKFIWNQKR ARIAKTILSQKNKAGGIMLPDF KLYYKATVTKTAWYWYQNRD IDQWNRTEPSEMTPHIYNHLIFD KPDKNKQWGKDSLFNKWCWE NWLAIQRQLKLDPFLTPYTKIN SRWIKDLNVRPKTIKLEENLG NTIQDISMGKDFMSKTPKAMA TKAKMDKWDLIKLSFCTAKE TTIRVNRQPTWEKNFAIYSSD KGLISRIYKQLKQIYKKKTNNPI KKWAKDMNRHFSKEDVYAAN RHMKKCSSLAIREMQIKTIMIY HLTPVTMAIHKSGNNRCWRG CGEMGTLLYCWWCKLVQPL WKTWQFLRDLELGIPFDPAIP LLGIYPKDYKSCCYKDTCTPKL ARDDQIHILKQHRRKELETRQK QYRAWYEINPFHSVWPVTAGK SPRHQLPVVWVHNPQTSPYLQL QTRDGEESNENFGSTILASDFF AEIDKLSILQIHMEMEGTQNSQ NNLDKKKTKMEDLHFSISKLLH SYSIQDNVISA
4235	34603	A	4276	3	355	RQPVHLVHELPPQSWGICLNSS EQHGALQHSSLHL/RMCSEPPWS SADPQ*R*TCRNL*LPVRGPPRR TDLFSVSSKSTLKEWPLLLMIL AELGSYLILSGRREESYFTSLVL ISIGDC
4236	34604	B	4277	78	791	

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4237	34605	A	4278	I	3395	MIISIDTENAFEKIQQPFMLKTL NKLGDGTYLKHIRAIYDKPTAN IILNGQKLEAFPLKTGTRQGCP SPLLNFIVLEVMAVRVIRQEKEIK GIQLGKEEVKLSLFVDDMIVYL ENPIVSAQNLLKLISNLSKVSGY KINVQKSQAFSYTNNRQTESQI MNGLPFTTASKRIKYLGIQLTR DVKELFKENYKPLLNEKKVDT NKWKNIPCSWIGRINILKMAIL P/KELEKTTLKFIWNQKRACIAK SILSKKNKAGGITLPDFKLYYK ATVTKTAWYWYQNRDIDQWN RTEPSEIIPHIYNHLIFDKPDKN KKWGMGSLFNKWCWENWLAI CRKLKLDPFLTPYTKINSRWIK DLNVRPKTIKTLEENLGNTIQDI DMGKDFMSKTPKAMATKAKID KWDLTCLRSFCTAKETTIRVNR QPKWEKIFAIYSSDKGLISRIY KELKRIYK/KKNNPIKKWAKD MNRYF*KEDIYAANRHMKKCS SSLAIEMQIKTTMR/YHLTPVR MAIIKKSNNRWEMNNENTWT QEGEHHTLG/HC/WWKARRSR CLTWMAAGKKRMRKTLQMT
4238	34606	B	4279	I	2011	

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4239	34607	A	4280	1	2661	MTMNFVADSHTGRNPLASAAG AKTGLRPLPRPCGARVWNPPD AGGGGVGSLKTSTPLGPLSAAN SPVHQGSVPQTRARGGGTLFQE VVTSRTLAFRNSLSAFTEVTSG TVSGRKGGRSTHLAGRRVSGG EGSRKAAAAALAAVAAAPGPV RRCSSQSCFSSSGSSHYSARTSP VRVRPRSLSSRSAAGNRAEAT ESAMEKTLETVPLERKKREKEQ FRKLFIGGLSFETTEESLRNYE QWGKLTDCVVMRDPASKRSRG FGFVTFSSMAEVDAAAMAARPH SIDGRVVEPKRAVAREESGKPG AHVTVKKLFVGGIKEDTEEHHL RDYFEEYGKIDTIEIITDRQSGK KRGFGFVTFDDHDPVDKIVLQK YHTINGHNAEVRKALSRQEMQ EVQSSRSRGRGDYGSGRGFGD GYNGYGGGGPGGNGFGGSPGYG GGRGGYGGGGPGYGNQGGGY GGGYDNYGGGNYGSGNYNDF GNYNQPSNYGPMKSGNFGGS RNMGGPYGGGIWKNTSITERK KSRKLDLIQSKKGSRTKEAPQP PVASLCMHLGHWSRLMVSPGA QLTGKNSHGLSVSSVRKSNVGP RRLCAAMKATGPDNAQSQVSP PGHAPSAEDPTGSRTVSSPCTD RPHPFLSRPKPTQISLVLPKLT DGALERMPQQL/HIASS/GAKVP NPSTQTPPVLLAFFYPFNLP*N
4240	34608	A	4281	1	908	MRKVKGKNRQSFKCLPPPSGA LQAHGAAAPHGSLLTLHLHLV PVSSAAMKATGPDNAQSQVSP PGHAPSAEDPTGSRTVSSPCED RPHPFLSWPTWISLALLKTDG ALERMPQQLPSLHPSQGTQSIH PDPSSSTSSFLPFQPPTLKRAAFP CPPSIVNPAVWDTSTPSVAEHH TPIRITLKEPTQFLSQKYPIPQA ALVGLQPIISHLLASHLLRPTDS PFNTPILPVKKPNGTYRLVQDL RLINQAVLPLVQE/DYSVLLYLP LNVTPGLPPATAFSYPPSPGPVA RARLASRLHSHAA

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4241	34609	A	4282	1	915	MPNYVTFTDTKQLISDTPNNQV PMNRASMAFDAKCLTGCRFDD AIVQFDMTYWPFTVVNDAGRP KVQVEYERDKKLLPIGGVFYGS DKDEGNCKSLPWEDCYQCET SQNVQDFLFLDVTPLSLDIKTA DGVMAVLIKCDATIPRQTQTF TTYSDKPSM/LIAKDKNLLRKFE LTGVPPAHHGAHQIEVTFDINA KGILNVTLTDDKGHLSKEDIEP MVQETEKYKADEKQRDKVSS KNSLDPYVFNMKATAEDEKLQ VKINNEHKQKILSKCHEIINWL DKNQTAEKEFEHAQQELEKSS
4242	34610	A	4283	1	994	MHQTCKGNQWHFGMKAHIGV DAKSLTHSLVTTRPNEHDLNQ LGNLLHGEEQFVSADAGYQGA PQREELAEVDVDWLIAERPGK VRTLKQHPKKNKTAINIEMKA SIRARVEHPFRIKRQFGFVKAR YKGLLKNDNQLAMLFTLANLF RADQMIHCTRGEGLITTKIPKAP DNGSYCLPSKNDDSEEDPEMS PMVVTCKMKEIAEAYLGKTVTN AVLTVPAYFNDSQRQAT/KKDA RTIAGLNGLRISNEPTAAAIAYG LNQKVGTERNVLIFDLGGSITPR IRTPETGSDDAISKILEQAKKEIE SQKGGECDPCRQSLRPPGPAAN
4243	34611	A	4284	3	677	
4244	34612	A	4285	30	365	EEAETVLVGQLKQLSSCLAVH KYRPETKQEKQRLARAEEKK AAGKGDVPTKRPPVLRAGVNT VTTLVENKKAQLVCRKMGPV YCIKKGKARLGRLVHRKTCTTV AFTQVN
4245	34613	A	4286	3	432	NSRVDDFVAAQDAKGKKVAP APAVVKKQEAKKVVNPLFEKR PKNFGIGQ\QRLARAEEKKAAG KGDVPTKRPPVLRAGVNTVTT LVENKKAQLVVIAHDVDPIELV VFLPALCRKMGPVYCIKKGKAR LGRLVHRKTCTTVFT
4246	34614	C	4287	62	217	

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4247	34615	A	4288	2	801	PKGKKAKGKKVAPAPAVVKK QEAKKVVNPLFEKRPKNFGIGQ DIQPKRDLTRFVKWPRYIRLQR QRAILYKRLKVPPAINQFTQAL DRQTATQLLKLAKHYRPETKQ EKKQRLLARA EKKAAGKGDVP TKRPPVLRAGVNTVTTLVENK KAQLVVIAHDVDPIELVVFLPA L\CRKMGVP\YCIK GKARLGRL VHRKTCTTVAFTQVNSDKG\ ALAKLVEAIRTNYNDRYDEIRR HWGGNDLRPK\SVARIAKLEKA KAKELATKLG
4248	34616	B	4289	1	273	
4249	34617	A	4290	1	441	
4250	34618	B	4291	47	482	
4251	34619	A	4292	1	762	
4252	34620	A	4293	1	890	MSKSESPKEPEQLRKLFIGGLSF ETTDESLRSHFEQWGTLTDCVV MRDPNTRSRGFGFVYATVE EVDAAMNARPHKVDGRVVEP KRAVSREDSQRPDYFEQYGKIE VIEIMTDRGSGKKRGFAVTFD DHDSVDKTVIQKYHTVNGHNC EVRKALSKQEMASASSSQRGRS GSGNFGGGRGGGFGGNDNFGR GGNFSGRGGFGGSHGGGGYGG SGDGYNGFGNDGSNFGGGGSY NDFGNYNQSSNFGPMKGGNF GGRSSGPYGGGGQYFAKPRNQ/ GGYGGSSSSSYGSGRRF
4253	34621	A	4294	1	1674	
4254	34622	A	4295	1	506	KYHTVNGHNCEVRKALSKQEI ASASCSQRGRSGSGNFGGDRG GGFGGNDNFGRGGNFSGHGGF GGSCCGGGYGGSGDGYNGFGN DASNFGGGGS/YNEFG/NYNNQ SSHFGPLS/GGNFGGRSS/SPLGG APASTYVKGPNSQRTQNEGWF EG*APWRGDGGARGNKGGGA

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4255	34623	A	4296	1	1445	MKCLKFINHKEILEASERKQAE SLDFPFKKLRWHLCEGWIEER DESRKSETIFKDLFKVPVLKETI YYKFYGPVYQIETVYFMALSP PKSKQFDKTKQNNNNKKTHQF VIVFFKTDEHLSARGRRRSIVK VSLPAVIGLKSKFLKKPDQLR KLF\GG\LSFETT\DESLEEFPSR QWGKRYTDSVVMRDPNTKRSR G\FGFVTYATVVEEVDA\MNA RPHKVEWKELLEPKRA\VSRED SQRPGCPH*LVKKIFVGGIKEDT \EEHHLRDYFEQYKGIEVIEIMT D\RGSGKKRGFA\VTFD\DHDS VDKIV\QKYHTVNG\HN\CEV* KSPVKS KMASASSKPKEGRSG FWETFGGGSWEVGFGGN\DNF GRG\GNFSWSV\AFGGSRG\GG GYG\GSGDG\YNGFGNDG\SNF G\GGG\SYNDFG\NYYNQ\SSNF GPMKGG\NFG\GRSSGPYG\GGG QYF\AKPR\NQQGGYGGSSSS\SN
4256	34624	A	4297	1	920	DPGDPNTASAPNCRSGKGRSS SPEHIPPLEKLEDSMQTNPSTNP EPGR LAEWLDPEERQQSLQFGL QEATSIGKGGQYYIKGTPHGTK ESEQQPSALDLPDRAYPNEKE PENQLWRLVIKLIKEAPEKGAY LNVKAVYDKPTNGEKLRAFPL RTGTHRCPLSPLLFNILLEVLA RAIRQEKEIKSIQIGKEEVKLSLF ADDIIYLESPKYSSRKLQELIKE FSKVSRYEINVHKSVALLYTNS NQAENQIKNSASFTIAAKNLIK YLGILTKDAKDGKENVYKTL MKEIIDDKNKQKYIP
4257	34625	A	4298	1	1194	
4258	34626	A	4299	3	1834	
4259	34627	A	4300	285	502	
4260	34628	B	4301	77	1306	
4261	34629	A	4302	1	354	
4262	34630	A	4303	1	1182	
4263	34631	B	4304	1	1995	
4264	34632	B	4305	1	1518	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
4265	34633	A	4306	1	918	MCPVGPWTHPVVISPVSECIVGI DILGSWQNLHIGSLTDITMVHYI DDMMLIGSSEQEVANSLLDV RHLHARGCKINPTKIQGTSTSV KFLEFQWCGVCQDIPSKWVLE QKALQQVQAAVQAALPLEPYD PADPMVLEVSVADGVAVWSL WQAPIARIHGSRNQGVEVEVSP LTNIPSDPLAKFLFPAPSTLCSA GLELLVPEGGTLPLGNTTMIPL NWKLRLLVPGYFGLLLALSPQA KNGVTVLAVIDPDYQDEITLL FHNGGGEEYARNTGDPLRHLL VLPSPMIKVNGKVLQHPNPGRT
4266	34634	B	4307	1	1599	
4267	34635	B	4308	1	1569	
4268	34636	A	4309	3	422	
4269	34637	A	4310	1	1089	
4270	34638	A	4311	2	549	LKMTAMQRPMEKRMMNREIL KERLSLTGIDIKLKKRSIMKVE SHRGEQISVSSLALQRIKYLGIQI TRDVKDLFKENYKPLLNLKE DTNKWRNVPCPRVGRISIVKM AILPK/ILKKKTTLKFIWNQKRA HIAKTILSKKNKAGGITLPDFKL YYKAT/KTAWCWYQNRDTDQ WNRTKPSEI

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4271	34639	A	4312	371	3036	LIAYQPKKVQDQMDSQPNSTR VLEVLARAIRQEKEIKGIQLGK/ EEVKLSMFADDITAYLENPIVS APNLLKLISNFSK/VSGYKINVQ KSQAFLYTNKRQTEQIMSELPF TVASKRIKYLGIKLRRDVKDLF KENYKPLLNEIKEDTNKWKNI CSWIGRJNIVKMTILPKVIYRFN APIKLPMTFFAELEKTTLKFIW NQKRAHIAKTILSQKNKAGGIM LPDFKLYYKATVTKTAWYWY QNRDIDQWNRJEPSEIIPHICKH LIFDKPDKNKKWGKDSL FNKW CWENWLAICRKLHLDPLTPYT KINSRWIKDLNVRHKTIKTLEE NLGNTIQDIGMGKDFMTKTPK AMATKAKIDKWDLIKLSFCT AKETTIRVNRQPTWEKIFATY SSDKGLISRIYNELKQIYKKKTN NPIKKWAKDMNRHFSKEDIYA AKKHMKKCSSSLAIRETLYNDR RIGKLTQTCDETAQPHVCTISR PMLSSPYRSSLTEKWSQDFSKP PYPFLFHKG YLNPREQDKEVLT RAIRQEKERKGIQLGKEEVKLS LFADDMIVYLENPIVSAQNPLK VVS NF SKVSGYKISVQKSQAFL YTNNRQTESQIMSELPFTIASKR IKYLRIQLTRDVKDLFKENCKP LLNEIEEDTNKWKNI PCSWIGRI NIVKMAILPKVIYRFNAIPIKLP MTFFT VLEKTTLKFIWNQKRAH
4272	34640	B	4313	1	1995	
4273	34641	A	4314	3	549	
4274	34642	A	4315	3	614	EAYGQTECTGGCTFTLP GDWT SGQFINILEMCLELSPCKSFSAD SARYVLGHVGVPLACNYVKLE DVADMNYFTVNNEGEVCIKGT NVFKGYLKDPEKTQEAL\DS DG WLHTGDIGRWLPDIENHNRLIV CTLTNTSWRSHKIIVLKTYQKA DDTKTPKETTFQNMNLFLEK RATAVLIRGGVGETSTDLSKKK PAKLLANF
4275	34643	A	4316	1	478	MKLDLHLSPTYTKINSRWIKDLN LRPETIKILEDIIRKTLDDIGLGK DFMIKNPKVNATKTKINKWDLI KLK\NFCTAKEISSREIREPTW EKIFANSASDKGLISRIYKELKQ IRSTLQLLFGISELPASLFLGFGA IMKSKKASLNTSTAILRQLIW

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4276	34644	A	4317	1	1125	MCHGIGAQIIPSHQTVQLDITAF LKTVMKKNKHKFYPAFIHILARL MNAHPEFRMAMKDGFIENMFF VSANPWVSFTSFDLVANMDN FFAPVFTMGKYYTQGDKVLMP LAIGGPLESPPDRDGGPLESTNR DASPESWSCRKSTPRLVAWVS AAKVFIIRDKLMERRNRRTGRT EKARIWEVTDRTVRTWIGEAV AAAAADGGGFRVDLARRSIRK DRNARSQNPVHTEGDMNMNIK KIVKQATVLTFTTAFLAGGATQ AFAKENNQKAYKETYGVSHIT RHDMLQIPKQQQNEKYQVPQF DQSTIKNIESAKGLDVWDSWPL QNADGTVAEYNGYHVVFALA GSPKDADDTSIYMFYQKVGDN SIDSWKNAGR VF
4277	34645	B	4318	1	1374	
4278	34646	A	4319	1	1293	
4279	34647	A	4320	1	1278	
4280	34648	A	4321	1	1254	MNMNIKKIVKQATVLTFTTALL AGGATQAFAKENNQKAYKETY GVSHITRHDMLQIPKQQQNEKY QVPQFDQSTIKNIESAKGLDVW DSWPLQNADGTVAEYNGYHV VFALAGSPKDADDTSIYMFYQ KVGDN SIDSWKNAGR VF KDSD KFDANDPILKDQTQEWSGSATF TSDGKIRLFYTDYSGKH YGKQS LTTAQVNVSKSDDTLKINGV\N GYYCEESL FNKA\YYGGGTNFF RKESQKLQSAKKRDAELANG ALGIIELNNDYTLKKVMKPLITS NTVTDEIERANVFKMNGK WYL FTDSRGSKMTIDGINSNDIYML GYVSNSLTGPYKPLNKTGLVLQ MGLDPNDVTFTYSHFAVPQAK GNNVVITSYMTNRGFFEDKKA TFAPSFLMNIKG NKTSVVKNSIL EQGQLTVN
4281	34649	A	4322	1	726	
4282	34650	A	4323	1	1050	

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4283	34651	A	4324	1	1185	MNMNIKKIVKQATVLTFTTALL AGGATQAFAKENNQKAYKETY GVSHITRHDMLQIPKQQQNEKY QVPQFDQSTIKNIESAKGLDVW DSWPLQNADGTVAEYNGYHV VFALAGSPKDADDTSIYMFYQ KVGDNIDSWKNAGRVFKDSD KFDANDPILKDQTQEWSGSATF TSDGKIRLFYTDYSGKHGKQS LTTAQVNVSKSDDTLKINGVED HKTIFDGDGKTYQNVQQFIDEG NYTSGDNHTLRDPHYVEDKGH KYLVEANTGTENGYQGEESLF NKAYYGGGTNFFRKESQKLQQ SAKKRDAELANGALGIIELNND YTLKKVMKPLITSN/TVPQAKG NNVITSYMTNRGFFEDKKATF APSFLMNIKGNKTSVVKNSILE QGQLTVN
4284	34652	B	4325	1	867	
4285	34653	A	4326	1	495	
4286	34654	A	4327	3	1394	GDMNMNIKKIVKQATVLTFTT A/LLAGGATQAFAKENNQKAY KETYGVSHITRHDMLQIPKQQ NEKYQVPQFDQSTIKNIESAKG LDVWDSWPLQNADGTVAEYN GYHVVFALAGSPKDADDTSIY MFYQKVGDNIDSWKNAGRVF KDSDKFDANDPILKDQTQEWS GSATFTSDGKIRLFYTDYSGKH YGKQSLTTAQVNVSKSDDTLKI NGVEDHKTIFDGDGKTYQNVQ QFIDEGNYTGDPLEAETAVINH KKRKNSPRIVQSNDLTEAAYSL SRDQKRMLYLFVDQIRKSDGTL QEHGICEIHVAKYAEIFGLTSA EASKDIRQALKSFAGKEVVFYR PEEDAGDEKGYESFPWFIKRAH SPSRGLYSVHINPYLIPFFIGLQN RFTQFRLSETKEITNPYAMRLY ESLCQYRKPDGSGIVSLKIDWII ERYQLPQSYQRTPDFRRRFLQV CVNEING
4287	34655	B	4328	9	1004	
4288	34656	A	4329	1	768	
4289	34657	A	4330	1	1308	
4290	34658	B	4331	58	753	
4291	34659	B	4332	1	409	
4292	34660	B	4333	1	921	
4293	34661	A	4334	1	1026	
4294	34662	B	4335	1	945	

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4295	34663	A	4336	1	528	MNMNIKKIVKQATVLTFTTALL AGGATQAFAKENNQKAYKET GVSHITRHDMLQIPKQQQNEKY QVPQFDQSTIKNIESAKGLDVW DSWPLQNADGTVAEYNGYHV VFALAGSPKDADDTSIYMFY/Q KDQTQEWS\GSATFTSDGKIRLF YTDYSGKHYGKQSLDTAQ*NV VKSG
4296	34664	A	4337	1	1701	
4297	34665	B	4338	97	1449	
4298	34666	A	4339	1	1581	
4299	34667	B	4340	1	1539	
4300	34668	A	4341	87	1078	SLPNLDNAAICSSSSSPTRTR*SL SEGATQAFAKEKYPHKHTKKR SGVFHITRHDMLQIPKQQQNEK YQVPQFDQSTIKNIESAKALDV WDSWPLQNADGTVAEYNGYH VVFALAGSPKDADDTSIYMFY QKVGDN SIDSWKNAGR VFKDS DKFDANDPILKDQTQEWSGSA TFTSDGKIRLFYTDYSGKHYGK QSLTTAQVNVKSDDTLKINGV EDHKTIFDGDGKTYQNVQQFID EGNYTSGDNHTLRDPHYVEDK GHKYRGP LESPSTHQA EFNPTS CVSSLGTLQGFPAPAWLALAH VHPLKHKSGGSNRLSAAIWG IKRKPAR
4301	34669	A	4342	1	1344	
4302	34670	A	4343	1	1713	
4303	34671	A	4344	3	1918	
4304	34672	A	4345	254	1118	RPPAFAKK*PKAYKET/YGVSHI TRHDMLQIPKQQQNEKYQVPQ FDQSTIKNIESAKGLDVWDSWP LQNADGTVAEYNGYHVVFALA GSPKDADDTSIYMFYQKVGDN SIDSWKNAGR VFKDS DKFDAN DPILKDQTQEWSGSATFTSDGK IRLFYTDYSGKHYGKQSLTTAQ VNVKSDDTLKINGVEDHKTIF DGDGKTYQNVQQFIDEGNYTS GDNHTLRDPHYVGGTSWEPGV FSVSCVFFGQQEGV/HG*DEFLD FSYWFQGG*ICLYQKAS*QNTT SYKRYTGS

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4305	34673	A	4346	1	1952	MNMNIKKIVKQATVLTFTTALL AGGATQAFKENNQKAYKET GVSHITRHDMLQIPKQQQNEKY QVPQFDQSTIKNIESAKGLDVW DSWPLQNADGTVAEYNGYHV VFALAGSPKDADDTSIYMFYQ KVGDNISWKNAGR VFKDSD KFDANDPILKDQTQEWSGSATF TSDGKIRLFYTGSLNSSKTEKY QVPHIDQSTIKNIESAKGLDVW DSWPLQNADGTVAEYNGYHV VFALAGSPKDADDTSIYMFYQ KVGDNISWKNAGR VFKDSD KFDANDPILKDQTQEWSGSATF TSDGKIRLFYTDYSGKHYGKQS LTTAQVNVSKSDDTLKINGVED HKTIFDGDGKTYQNVQQFIDEG NYTSGDNHTLRDPHYVEDKGH KYL VFQDHTGTEHPQPQIERP RTQSFTSAFAERRECIPNVPADT KLSKIKTLRLATSYIAYLMDLL AKDDQNGEAEAFKAEIKKTDV KEEKRRKELASKCLDLEQLGAS VEPTGNLRTKITKEKPRHTGPPE VVVPGCCPHRSRAYKSDKYAH TLTVTASQHAPPPHMEGFEL FHLPLDLCSPSQDAQTTGRTQMK PDHSPRPSHRVPQAKGNVNVIT SYMTNRGFFEDKKATFAPSFLM NIKGNKTSVVKNSILEQGQLTV
4306	34674	A	4347	1	1029	
4307	34675	A	4348	276	1248	CVWLGCGRGYYPKAYKET\GV SHITRHDMLQIPKQQQNEKYQV PQFDQSTIKNIESAKGLDVWDS WPLQNADGTVAEYNGYHVVF ALAGSPKDADDTSIYMFYQKV GDNSIDSWKNAGR VFKDSDKF DANDPILKDQTQEWSGSATFTS DGKIRLFYTDYSGKHYGKQSLT TAQQLQLVQFQEVDTDFDFPE EDKKEEFEECLEKFFSTGPAPPP TKEKVKRRVLIEPGMPLNHIEY CNHEIMGKNVYKHRWVAEH YFLLMQYDELQKICYNEFVPSV IFLRYKSPGEAAGTCHLKQRRW VMPEAAAPVGTGSRYPLTGQL
4308	34676	A	4349	1	242	MNSIQIPKQQQNEKYQVPQFDQ STIKYIESPKELDVWDSWPLQN ADGTVAEYNGYHVAFALAG/S PKDADDTSIYMFYQKI
4309	34677	B	4350	1	2198	

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4310	34678	A	4351	1	2796	
4311	34679	A	4352	2047	3531	
4312	34680	A	4353	1	3336	
4313	34681	A	4354	1	1409	MKRAPVIPKHTLNTQPVEDTSL STPAAPMVDSLIRVGVMMARG NAITLPVCGRDVKFTLEVLRGD SVEKTSRVWSGNERDQELLTE DALDDLIPSFLLTGQQTPAFGR RVSGVIEIADGSRRRKAAALTE SDYRVLVGELDDEQMAALSRL GGATQAFAKENNQKAYKET GVSHITRHDMLQIPKQQQNEKY QVPQFDQSTIKNIESAKGLDVW DSWPLQNADGTVAEYNGYHV VFALAGSPKDADDTSIYMFYQ KVGDN SIDSWKNAGR VFKDSD KFDANDPILKDQTQEWSGSATF TSDGKIRLFYTDYSGKH YGKQS LTTAQVNVSKSDDTLKINGVED HKTIFDGDGKTYQNVQQFIDGY LLEPDGGALQNFQRYTG I QH V H RIGMAERMWCDNRNRERTVSS SGGNRLPNPGPDRSVRHFDPDR FLCPSCATVTPLHELIANKYLSG KIGAKKLRKLLIKHVD
4314	34682	A	4355	1	2316	
4315	34683	A	4356	93	924	AQTDAAEKSVSIAQLFQACLSIF SSGDV/AGGATQAFAKENNQK AYKETYG VSHITRHDMLQIPKQ QQNEKYQVPQFDQSTIKNIESA KGLDVWDSWPLQNADGTVAE YNGYHVV FALAGSPKDADDT SIYMFYQKVGDN SIDSWKNAGR VFKDSDKFDANDPILKDQTQE WSGSATFTSDGKIRLFYTDYSG KH YGKQSLTTAQVNVSKSNDT LKINGVGKYKTIFDGDGKTYQT VQQFIDEGNYTSGGHHTLKDP SYNPPLDLSGGNSGYQSQET

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4316	34684	A	4357	1	3118	MNMNIKKIVKQATVLTFTTALL AGGATQAFAKENNQKAYKETY GVSHITRHDMLQIPKQQQNEKY QVPQFDQSTIKNIESAKGLDVW DSWPLQNADGTVAEYNGYHV VFALAGSPKDADDTSIYMFYQ KVGDNISDSWKNAGR VFKDSD KFDANDPILKDQTQEWSGSATF TSDGKIRLFYTDYSGKH YGKQS LTTAQVNVSKSDDTLKINGVED HKTIFDGDGKTYQNVQQFIDEG NYTSGDNHTLARDP/HYVENKG HKYLG FETNTGTENG YQGEESL FNKAYYGGGTNFFRKESQKLQ QSAKKRDAELANGALGIIE LNN DYTLKKVMKPLITSNTVTDEIE RANVFKMNGKWYLF TDSRGSK MTIDGINSNDIYMLGSDESPND FGNRHLH KERLAVYRWHASFI CSGNTMPIVLVDWSDIREQKRL MVLRASVALHGRSVTLYEKAF PLSEQCSKKAHDQFLADLASIL PSNTTPLIVSDAGFKVPWYKSV EKLGWYWLSRVRGKVQYADL GAENWKPI SNLHDMSSSHSKTL GYKRLTKSNPISCQILLYKSRSK GRKNQRSTRTHCHHPSPKIYSA SAKEPWVLATNLPVEIRTPKQL VNIYSKRMQIEETFRDLKSPAY GLGLRHSRTSSSERFDIMLLIAL MLQLTCWLAGVHAQKQ
4317	34685	A	4358	1	1326	
4318	34686	A	4359	2140	4390	
4319	34687	B	4360	1	7271	
4320	34688	A	4361	1	1729	
4321	34689	A	4362	5118	5687	
4322	34690	B	4363	1	4726	
4323	34691	B	4364	1	3688	
4324	34692	A	4365	1	1401	
4325	34693	A	4366	1	1932	
4326	34694	A	4367	1	1407	
4327	34695	A	4368	1	1491	
4328	34696	B	4369	1	855	

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4329	34697	A	4370	137	1014	ASEGKQMLRDFVTTRSALKELL KRALNMARNNQYQPLQKHAK L*RPSML*RNCIN*QPGRD/TN KKENFRPISLMNIDAKILNKILA NRIQQHIKKLIHNDQVGFI QGWFNHKSINIIHHIKRTNDKN HMIISIDAEKAFNKIQPFMLKT LNKLGIDGTYLKIIIRAIYDRPTA NVILNGQKLEAFPFGTGRQCC PLSPLLFNIVLKVLARAIRQETEI KGIQLAKEEVKLSLFADDMIVY LENPIISAQNLLKLISNFSK/VSG YKINVQKSQAFLYTINRQTESQI
4330	34698	A	4371	3	1234	
4331	34699	A	4372	1	2850	MGMGPAKPGMGGNLLVCWLQ RPWEKRSIWADEVYRSSRYSHS WLPLSRKGCDFSGTCRQTL TQPLRQWGLEGIKKPN SVSNGGPPLIPRQTASGVDLQ QTPTDLQLRVLT GIASTSTKRTSTPKPHLYVTI DQSYIKPQRWGKNIAEKLKILKI RVALSLQRNAAPHQQWNKAG RRMSLMSSQKKASEVIESQMN EIKGEEKFREKRVKRNEQSLQEI WDYVKRPDLRLIGVPD
4332	34700	B	4373	16	701	
4333	34701	B	4374	1	3743	
4334	34702	A	4375	227	686	KVMLAEYPVFAQLTLTPSSA SWEPSRGPGPRGIRGSCPEWLA SGPG\KAAPGAGVPPPAASFPDP PPRLRAPALAVSRGLRRELPSG LDWTHCLRTLPSLIVQILQQA LLGLPPAYSDQLQRAGQLHFYS GLIKISLVLTTRLSFWGTTE
4335	34703	A	4376	216	644	VTYSKEKECGEVADSVAKTAL EKDGAPRTGDPRPNLGADPPRS LVSSAGPQAVRPVKPARQFP PPRYSQGPAAAGEEGRGMRPP GAGRRLPGPPLPGPEASHSGQL PLM/PPGPGPRLGSQEPVSL LQTQARMPGPRP

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4336	34704	A	4377	18	1023	QIQHSPLVSPPLSPPLVAEE EPPVA/PWPRRLPATSTSH/PSH PLTEPVPTSGRGCLWTKRQ QKMCRTTYTSVGRK/CTFPIDS GALRLSDGEMRALQTPTGPQST VEGHHLQSL/PHHDRVATATPG TEPGLRAAGNRRIFYPGP/VTSQ VQPQLLCGYGNASRTPAALTPG PAPPTQASLPNCGICPHLQMGR PTSPC/PPEGGHPSSSLYISLSPPP PSAPALRLPPPLP\SAPTAPAL/P/ PAAPSAPALRLRLPCCSFRPR PAAPSAPARLLPPLLVCSEFRPC PAAPSAPAGLLLPLLCCSGLSP RLCCPHSSCSDPPRLQRKADSS
4337	34705	B	4378	1	984	
4338	34706	A	4379	332	847	VKLLQDKEICILCQKTVYPME CLVADKQNFHKSCFRCHHCNS KLSLGNYSALHGQIYCKPHFKP TFQNPKNYDEGFGHKA\HKD RWNWQKPKADSVDFIPNEEPN MCKNIAENTLVPGDRNEHLDA GNSEGQRNDLRKLGERGKLKV IWPPSKEIPKKTLPFEEELKMSK
4339	34707	A	4380	305	505	GNLERMLNLGMVKQKLPALIM KTQVLM*AINVPAKPLFPQSG GAVRTTHGGKSRLKETGATSD TE
4340	34708	A	4381	56	260	IVKTQSIDG/MGNLRITEKGLKL EGDS/EFLQPLYAKEIQRPLGLG TQEQSCQTLSSCSRGGQQQHA
4341	34709	A	4382	137	920	
4342	34710	A	4383	532	1680	LLTTRTSFRSENHRHVGLLLVM TDNTRDKEYFGDESKRENEKT VEKSIGEKQATLTTHANIITIRH CVKPEPDFSDHLNLLLGRADIT GEEMAAQRSSVEKLANGNIAL VDSLRSRSLEEGSDPHKRLSG AQDIKTTVEEVIADVVEIARELE LEVEPEDVTEFLQAHEKTLTDV ELFLINEQIKWFLEMKSTPRED AVIIAETITKVLEYDINLVTKQQ QGMRLTPILKEVLLWVKCHQ TALHATEKPFIKGRINPCGKIHT CLNLRNCGQLLIREEEEEEDKEE EEQYEEKEEEEEEEEEEEEEEE EEEEEEEEEEEEEEEEEEEEDEE DEEEDKEKEEEEDNKEEEEEED KEKEEEEDKE\EKEDKEEEEDK

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
4343	34711	A	4384	3	495	EDTGTFRITYESAGAVKKARGF LEFVEDFIQVSKNLIGKVIGKNG KVIQEIVDKSDMVPVRIEGDSE NKLPRDKDDRDSRHQRDSRR CPGGRCRSVSGRRGRGGPRGG KSSISSVPKDPDSNPYSVLDN/T ESDQTADTDASKSHHSTNRHTR SRRRRTDEDAVL
4344	34712	A	4385	1	550	TESERKDELSDWSLAGEDDRDS RHQRDSRRRPGGRGRSVSGGR GRGGPRGGKSSISSVLKDPDSN PYSLLDNTESDQTADTDASESH HSTNRRRRSRRRRTDEDAVLM DGMTESDTASVNEGLAKDV IEEHGPSEKAINGPTASAGDDIS KLQRTPGERKRLIP*KKENTQE AAVLNGVS
4345	34713	A	4386	1	2063	MAELTVEVRGSNGAFYKGFIF DVHEDSLTVVFENNWQPERQV PFNEVRLPPPDIKKEISEGDEV EVYSRANDQPCGWLAKVR MMKGEFYVIEYAACDATYNEI VTFERLRPVNQNTVKKNTFFK CTVDVPEDLREACANENAHKD FKKAVGACRIFYHPETTQLMIL SASEATVKRVNILSDMHLRSIR TKLMLMSRNEEATKHLECTKQ LAAAFHEEFVVREDLMGLAIGT HGSNIQQARKVPGVTAIELDED TGTFRIYGESADAVKKARGFLE FVEDFIQVPRNLVGKVIGKNGK VIQEIVDKSGVVRVRIEGDNEN KLPREDGMVPFVFGTKESIGN VQVLLEYHIAYLKEVEQLRME RLQIDEQLRQIGMGFRPSSTRGP EKEKGYATDESTVSSVQGSRSY SGRGRGRGPNYTSYGNTSEL SNPSETESERKDELSDWSLAGE DDRDSRHQRDSRRRPGGRGRS VSGGRGRGGPRGGKSSISSVQY RSNIHNCSTLKRIFLASDMNIVL KDPDSNPYSLLDNTESDQTADT DASESHHSTNRRRRSRRRRTDE DAVLMGMTESDTASVNEGL DDSEKKPQRNRNRRRRFRGQ AEDRQPAIDFIYKEVEKVVS WQAKDVIEEHGPSEKAINGPTS ASGDDISKLQRTPGEEKINTLKE

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4346	34714	A	4387	1	1882	CGSNMADVTVEVRGSNGAFYK GFIKDVHEDSLTVVFENNWQPE RQVPFNEVRLPPPPDIKKEISEG DEVEVYSRANDQEPGWWLA KVRMMKGEFYVIEYAACDATY NEIVTFERLRPVNQNKTVKKN FFKCTVDVPEDLREACANENA HKDFKKA VGACRIFYHPETTQL MILSASEATVKRVNLSMDHLR SIRTKLMLMSRNEEATKHLECT KQLAAAFHEEFVREDLMGLA IGTHGSNIQQARKVPGVTAIEL DEDTGTFRIYGESADAVKKAR GFLEFVEDFIQVPRNLVGKVIG KNGKVIQEIVDKSGVVRVRIEG DNENKLPRDGMVPFVFGTK ESIGNVQVLLEYHIAYLKEVEQ LRMERLQIDEQLRQIGSRYSYG RGRGRRGPNTSGYGTNSELSN PSETESERKDELSDWSLAGEDN RDSRHQRDSRRRPGGRGRSVSG GRGRGGPR/GGKSSISSVLKDPD SNPYSLLDNTESDQTDADTDASE SHSTNRRRR/SIRRRRTD\EDA VLMNGMTESDTASVNENGLVT VADYISRAESQSRQRNLPRETL AKNKKEMAKDVIEEHGPSEKAI NGPTSASGDDISKLRQTPGEEKI NTLKEENTQEA AVLNGVS
4347	34715	A	4388	2	421	PRVRSDTEDDSEAEHFESFIHP TAMMFTSTINLLQTLCLSAGVH AEIMQSEATKTLGGLL\KSSPNR LVYREQHRSWCTLGFVQSIALT LQVCGALSSLQWITLLMKVVE GHAPFTATSLQRQILAVHLLQA VLPSWDK
4348	34716	A	4389	269	417	DLNCKVGSCFEVYSS*KQGIN*I KLGDSKT*P*LSGPTSENLNKSS LAE
4349	34717	A	4390	1	516	
4350	34718	C	4391	1	1527	

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4351	34719	A	4392	200	1267	TFSKASRGGNPHSMTKAPSDFR KARQTGIPGCSQLGSRYSLEPE QSALRLVCIQKLQESSTTCEDFF CPLCGRAWAVSTPLTDSPPSGH QPAVK*LGLVPFSDTHHPLPFQ VLSTDDTSSSSSCSSSCSASSSSP /SLLLLLLFLLLLLLLLMLLLKL FLLLLLFLL/RPPASPLLPPALS PPL/HCSSSPSAPPASPPAPPPPP APPPSPPPAPPPSAPSSAPLPPA PASPPFSCSSSSSCSSSSSFSSC SSLSSSAQAEGSLRAPRESSPSL DPSAPQRVKVVPQAGSGHRA GGALENRPRGKKPWLHFRPGL RSRLPARSLRSRPAPTRWLRSS GRFTGAATATATART
4352	34720	A	4393	1	2607	MMGHSSAIPLTATPGELKGQSP TKMPDPELGCGAKSQGCSRN ARHQKARSMPLQDQHLALAIL LELAVQRGTLSQLSAILLLLQ LWDSRAQETDNERSAQGTSTL LLSLLQTFQSIICSKDTPPSEGN MHLLSGPLSPSESFLRESFFTQV NCRNNEEVTICKADLENHNK DGGFWIVIDEKVYDIKDFQTQS LTGNSILAQFAGENPVVALEAA FEFEVTRESMHAFCVGQYLEVR LYALSDAEDGRG\TL*WLQSSIF SG/GLQTSQIHYSYNEEKDEDH CS/SPVGTPASKSRICSHRWALG DHSQAFLQAIADNNIQDHNVKT HQEQGRSYKEVCTPVIERLRL SNELRPAVGNDLSIIEFKLLSSL PRWRRIAQKIIERRRKKRIPKKP ESTADEEKIGNEESDLEEACILP HSPINVDKRPIAIKSPKTITSEN LGPSLGSIPQARFLLMMLSMMLT LQHSANNLDLLLNSGTLALTQT ALRLIGPSCDNVEEDMNASAQ GVSATVLEATRKETAPVHLPVS GPELAATMKIGTRVMRGVDW KWGDQDGPPLGLRVIGELGE DGWIRVQWGTGSTNSYRMGK EGKYDLKLAELPAAAQPSAEDS DTEDDSASPRLVYREQHRSW CMLGFVRSIALTPQVCGALSSP QWITLLMKVMKGHAPFPAASL QRQRWVAVSLPHALVKSGTVP

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4353	34721	A	4394	266	1110	WARGGCARNALASGNAIQGGK CNPGLFPPSPNRLVYREQHRSW CMLGFVRSIALTPQVCGALSSP QWITLLMKVMKGHAPFPAASL QRQLCPE/HTSCPVLKDFCKSVI TDVACSSLISTLLVFWGGLLHT HKEASESWREAKSTSYVAAAR ENEEDAKAEPPTPGIKPSDLVRL IHYQENSMGETAPMIQIISHWV PPTTHGIYGSTIQDEIRVGVSYP GHTDARGFQLLLVSGDFSIPYW SLSSAYTSVNSSFVESLQSNLLK GILLPATIMTDPRTTGHQ
4354	34722	A	4395	1	734	MVQLSGKRILNSPYLELRCHQN MDHLGWVIKKSLSNRSEVSWP GLEFPWGPKEPREVIAGPLLRN NGQSLESSLEGSHVGVYFSAH WCPPCRSLTRVLVESYRKIKEA GQNFEEIFVSADRSEESFKQYFS EMPWLAVPYTDEARRSRLNRL YGIQAHFLTANAEDFDTTVQV NKIILITYRQENSLSLKTGET EAQGRLLQGSPSNVRGHPDRH AIPLSVNRWNPSKSSPSPAVWS
4355	34723	A	4396	195	1071	LHEFDSSRDLTSGLGARTHRR LGGPSDAPRGLPAPPAPVVRPG /PRSPGPSAGTAR/DAPRPSVQM RAQRPARGSTKDLIETCCAAGQ QWAIDNDECLEIPESGTEDNVC RTAQRHCCVSYLQEKSCMAGV LGAKEGETCGAEDNDSCGISLY KASLTCGLQGRCLNPQQASMG LFSYDVQSSKKINRSIQEKLGG HGVCAATPGGGMNRNCGRLRRS GQRRGGTDRCEAVLTGLFTRA LIREQMGDPHPLDHTGQLAKPL EVEKTPARWKYLDTNGEKEEP ELRTQCPSLYED
4356	34724	A	4397	1	520	MMGEKAEKPDTEKKPKAKK ADAGGKRNCRYRSAMYSRKT TSRKKYSAKSKVEKKKKFLA TVTKPVGVDKNSGTQVVKLHK MPRYPTEDVPLKLLSHG/KKK PFSQHR/RRVVFLKQLV/SGTGP LVLNQVPLRRTHQKFVIATSTKI GSSNVKIAKRLTGAYFKKVWK PKHQE
4357	34725	C	4398	67	243	

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4358	34726	A	4399	1	333	QRSCIENILRAC/VGLPPQNHML LEHKM/DAKRVGPVAATYPML NKKGPVPAATNGCTGDANGHL QEEPPMPTT*GPGHTVSRLFLPA APHDPTLKAPTNNNSAATQPSKN KKK
4359	34727	A	4400	587	1013	GAASAGRGPGRAPGLWGRGP AAAGASLVPTDHSVLSYNHLG NNDGENLSAP/SQFRSKEVSKS NVVDD/MVQSNPVLYTPGEED HATRCWPHPSAGPSAADRAVP ARPAGAPATEPHAPGTQNGAP GPSLKRVPVAATYPI
4360	34728	A	4401	2	334	
4361	34729	B	4402	257	975	
4362	34730	A	4403	30	365	EEAETVLVGQLKQLSSCLAVH KYRPETKQEKQRLRLARAEEK AAGKGDVPTKRPPVLRAGVNT VTTLVENKKAQLV\CRKMGVP YCIK GKARLGRLVHRKTCTTV AFTQVN
4363	34731	C	4404	62	217	
4364	34732	A	4405	2	69	
4365	34733	A	4406	1	951	GTRPKMPKGKKAKGKKVAPAP AVVKKQEGFRKKW*IPWFEKR PKNFGIGQDIQPQKRPPLL*K WPRQYQACSGQRAILYKRLKV PPAMKPVSPRALD\RQTATQLA *AVAHKVQTQRQKQEKQRL\ LARADEEGCLAKGDVPNERDP PVPSSQEFNPVSPPLVKEQEKLK LVVNWHTDV\DPHPSLVCLPC/ LCPAPVS*KMGGPFTCHIQGKRA RLWDRLPQERPCTTCPPFTQV N\SEDKVRLAKAGLEAIQGPIY N*PDTMEIRPSLGVGNVLGPKS VARIKARNRHKAKETATHTG LNVTLLSFLYYKNN

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4366	34734	A	4407	1	1392	MPDVSEEQKESVCTGSMREE ESSRKGKVRTAGAKSSSSDRVP RLNQEEVESLNRPTGAEIVAIN SLPTKKSPAPDGFTAIFYQRIRI QQPIRIQQPIKKLIQHDKVGFI GMQGWFNICKSINVQHINRTK EKNHMIISIDAEKPFDKIQQCFM LKTNLKLGIDGTYLKIIIRAIYHK PTANIILNGQKLEAFPLKTGTRQ GCPLSPLLFNIVLEVLARAIQE KEIKGIQLGKEEVKLSLFADDM IIYLENPTVSAQNLLKLISNFSK VSGYKINVQKSQAFLYTNNRQ TESQIMSELPFTIASKRIKHLGIQ LTRDVKDLFKENYKPLLNEIKE DTKKWKNIPCSWAGRISIMKM AILPKVIYRFNAIPIKLPMTFFTE LEKTTLKFI RNQKRAHIAKSILS QKNKAGGITLPDFKLYYKATV TKTAWYWYQNRDIDQCTRTQP VSEITPHIYNILF
4367	34735	A	4408	1	1947	MALRRLSHDVSGALLANGES TGNSGGSSGSSPSGGATSGSSQ TSISGDVVEACCSVLSMVCADP VYKVYVAALQCMMLVTLEDPS SHFTRMRRRLM/AYADEVEIAE AIQLGVEDTLDGQQDSFCRHL FPTTIWKPQRTVP/LECTIHLEKT GKGLCATKLSASSEDISERLASI SVG PSSSTTTTTTEQPKPMVQ TKGRPHSQCLNSSPLSHHSQLM FPALSTPSSSTPSVPAGTATDVS KHRLQGFIPCRIPSASPQTQRKF SLQFHRNCPENKDSKLSPVFT QSRPLPSSNIHRPKSRPTPGNTS KQGDPSKNSMTLDLNSSSKCD DSFGCSSNSS/NCCYT\SDETVFT PVEEKCRLDVNTELNSSIEDLLE ASMPSSDTTVTFKSEVAVLSPE KAENDDTYKDDVNHNNQCKE KMEAE EEEALAIAMAMSASQD ALPIVPQLQVENGEDIHIIQQDM TFFRHIIPPIQWIYKKESANLLID STGQRLRIADFGAAARLASKGT GAGEFQGQLLGTIAFMAPEVLR GQQYGRSCDVWSVGCAIEMA CAKPPWNAEKHSNHLALIFKKL LDFANTACDGDKESEVEDVET DSGNPEDLRKEIMIGLQYQAEI PPYLGEYDGNEDSPQPKKMT GVQNAKEVLST

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4368	34736	A	4409	1	4485	
4369	34737	A	4410	2	927	IDHMIGHKASLNKFKKIEIISSTL SGHNGIKLEINSKRDLQNHANT RK\LNLLNEHWVKNEIKMEI LKFFELNDHNDTTYQNLWDTA KATFLLRGKFTALNAYIKKTER AQTDILRSHVKELEKQEQTTPK PSRRKEITKIREELNEMETNKK KIQKINETKSRFFEQINKIDRSLA RLAKKRREKIQTSIRNKTGDTT TDTTEIQKIIQGYEHLIAHKLE NLEEMDKFLEKYNPPSLNQEEL DTLNRTITSNKIEMVIKLPKTK KSPGPNGFTAIFYQTFKEELVP ILSILVHKTEKEGTL
4370	34738	A	4411	405	517	
4371	34739	A	4412	1	1197	MEISELNAKLRSQEKEKQNEIHK LQLEKLQHFQEEKNKEIAILRN TIRDLEQRLSVGKDSHLKRENE QLKISADLIKEKLKSHEQEYKN NIAKLVSEMKIKEEGYKKEISK LYQDMQRKGRIKVTCWTCSE RKTEGREPGPVREPTGRSQA NEGSKTLAEINTKGTQSPAERIN KIDRLARLTNKRREKVQISSIR NKTGDIRTDTTEKQKFMQGYH EHLVYMHKLENLKEMDKFLEIY SPPRLKREDIETLSRPITISDIEM KNLKIPPKLPKLINKFSKVSRYK INVHKLVALYANSQDTDNQIK NSTHFTIVAKK\YLGILYTKDM KDLHKENSK/PLLKEIIDDTIKW KHIPCSWMSTTNIVKMTILPKTI YKFNAIIKIPPSFFAERKKQS
4372	34740	A	4413	1	190	MIQRKRASIGAPCAWVRKKEE EEEEEEEEEEEEEEEEEEEEK KKKKKKKERTTWLWGNPLT
4373	34741	A	4414	303	429	
4374	34742	A	4415	123	252	
4375	34743	A	4416	1	156	
4376	34744	A	4417	3	351	EEEEEEEEEEEEEEEEEEEE EEEEEEEEEEEEEEEEEEEE EEEEKEEEEEEEEEEEEEEEE LGRLHGGSGKVRGLGFTENQQ GSTNRQHQREDNRKSKQKKIN NTKPEATESLIVNGITITAPA
4377	34745	A	4418	1	192	
4378	34746	A	4419	3	259	
4379	34747	A	4420	1	279	
4380	34748	B	4421	1	708	
4381	34749	A	4422	3	269	

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4382	34750	A	4423	1	322	MAGKQGRSEGASSWRLSSVLQ LNSQYFLQGAQOCTFLAATAW KKRKEEEEEEEEEEEEEEEEEEE EEEEEEEEEEEEEEEEKKKKKKKK KKKKKKKKKKKKKKKKKKKKKK KKKKKKKKKKKKKKKKKKKKKK KKKKKKKENPFSCF
4383	34751	B	4424	327	674	
4384	34752	A	4425	494	960	TRFYDHALHLIHRKGSTTVRSP PPLYFIGESKASALLAISLRWSG RSQPRSSVNQIRKAWGFRPRKG TEE/DERSGCPSDALESDDPMA YIHFTAEGEVTFKSILFVPTSAP RGLFDEYGSKKSDYIKLYVRRV FITDDFHDMPKYLNFVKGVV
4385	34753	A	4426	1	2539	VGGPRGWRCEDPNPGVGGGGG SCDRRGLETHRPHAMRALWVL GLCCVLLTFGSVRADDEVVD GTVEEDLGKSREGSRTDDEVV QREEEAIQLDGLNASQIRELRE KSEKFAFQAEVNRMMKLINSL YKNKEIFLRELISNASDALDKIR LISLTDENALSGNEELTVKIKCD KEKNLLHVTDTGVGMTREELV KNLGTIAKSGTSEFLNKMTEAQ EDGQSTSELIGQFGVGFYSAFL VADKVIVTSKHNDTQHIWES DSNEFSVIADPRGNTLGRGTTIT LVLKEEASDYLELDTIKNLVKK YSQFINFPIYVWSSKTETVEPM EEEEAAKEEKEESDDEAAVEEE EEEKKPKTKKVEKTVWDWEL MNDIKPIWQRPSKEVEEDEYKA FYKSFSKESDDPMAYIHFTAEG EVTFK\SILFVPTSAPRG\LFD\DY GSKK\SDYIKLY\RR\VFITD\DF HDMMPKYLNFVKGVVDSDDL PLNVSRETLLQHKLLKVIRKKL VP*NRWDMIKKI/SLDDKYNDT FW\KEFGYQHSSLVVEGPLRIR TRLAKLLR\FQSSHPTD\ITSLD QYVERMKEKQDKIYFMAGSSK KEAESSPFVERLLKKGYEVIYL TEPVDEYCIQALPEFDGKRFQN VAKEGVKFDESEKTKESREAVE KEFEPLLNWMKDKALKDKIEK AVVSQRLTESPCALVASQYGW

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4386	34754	A	4427	2	622	PARAALGILTSHQSGFLKTSTSK ITSTAWKNKDITMQSTKQYAC LHDLTNKGIGEEIDNEHPWTKP VSENFTSPIYVWMLDAEDLA DIEDTVEWRHRNVESLCVMET ASNFSCSTSGCFSKDIVGLRTS\ ACWQQHCASPAFAYCGHSFCC TGTALRTMSSLPESSAMW*KKP ARTRLPRGKDLIYFGSEKSDQE TGTL LLPVSS
4387	34755	A	4428	2	1421	QHCSQKDTAELLRGLSLWNHA EERQKFFKYSVDEKSDKEAEVS EHSTGITHLPPEVMLSIFS YLNP QELCRCSQVSMKWSQLTKTGS LWKHLYPVHWARGDWYSGPA TEL\DTPEPDEWVKNR\KDESR AFHEWDEDADIDEESESAEESI AISIAQMEKRL LHGLIH\NVLPY VGTSVKTLVLAYSSAVSSKMV RQILELCPNLEHLDLTQTDISDS AFDSWSWLGCCQSLRHLDLSG CEKITDVALEKISRALGN SGHL HQSGLKTSTSKITSTAWKNKD ITMQSTKQYACLHDLTNKGIGE EIDNEHPWTKPVSENFTSPIYV WMLDAEDLADIEDTVEWRHR NVESLCVMETASNFSCSTSGCF NHRPWSQNEYEQ LNYAKQLKE RLEAFTRDFLPHMKEEEVFQP MLMEYFTYEELKDIKKKVIAQ HCSQKDTAELLRGLSLWNHAE ERQKFFKYSVDEKSDKEAEVS
4388	34756	B	4429	70	348	
4389	34757	A	4430	2	371	
4390	34758	A	4431	1	907	MGHRINIVCKIDAPCARQTRTF HPVVKTVEDCGRYPSVIEFGKY EIQTWYSSYPQ EYARNLAKEG KMGEREMSFVQQLQPM SGRCS LFRELSSCTYLLNTQPP/AVSIH FLAVWIILLVDGNMSKIYCQNL CLLAKLFLDHKTLYYDVEPFLF YVLTKNDEKGCHLVGYFSKWT VLQGQWQVQGIAHF SRALTYLI CFSFPQEKLCQKYNVSCIMIM PQHQRQGFGRFLIDFISFPRLTIG ASFTQLRKQSMSNSTEIPLLGD NGKSSPTFWQSLTSSPNAHFS LEAQLSILGHLFQSP

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4391	34759	A	4432	1	3468	MGKKQNRKTGNSKNQSASPPP KERSSSPATEQSWMENDFDEL EEGFRLSNYSELPEDIQTGKE VENFEKNLEECITRITNKRNF TKIKRDKEGHYIMVKGSIQQEE LTILNIYAPTGA PRFIKQVLSDR QRDLDFHTLIMGDFNTPLSTLD RSTRQKVNKDTQELNSALHQA DLIDIYRTLHKSSTEYRFFSAPH HTYSKIDHLLGSKAFLSKCKRT EIITNYLSDHSAIKLELRIKNLTQ NRSTTWKLNN
4392	34760	A	4433	3	1900	FNKCMTLKFRLKNFSRINKIDTP LARLIKKKREKNRIDTIKNDKG DITSNPTEIQSTIREYYKHLYTN KLENLEEMDKFLDTYTLPRLNQ EEVESLNRPTGSEIMAINSLPT KKSPGPDGFTAKFYQRYKEELV PFLCLKFQSIEKEGILPNSFYEAS IILIPKGRDTTKNENFRPISLMN IDAKILNKILANRIQQHIKKLIH HDQVGFIPGMQGWFNIRKSINV IQHISRTKDKNHMIIISDAEKAF DKIQPFMLKTLNKLGNKYLGI QLTRDVKDLFKERS/YEPLLNEI KEDTNKWKNIPCSWVGRINIVK MAILPKVIYRFNAIPIKLPMTFF TELEKTTLKFIWNQKRALIAKSI LSQKNKAGGITLPDFKLYYKAT VTKTAWYWYQNRDIDQWNRT EPSEITLHIYNYLIFDKPEKNKQ WGKDSL FNKWCWENWLAICR KLKLDPFLTPYTKINSRWIKDL NVRPKTIKTEENLGITIQDIGM GKDYMSTPKAMATKAKIDK WDLIKLKSFACTAKETTIRVNRQ PTKWEKIFATYSSDKGLISRIYN ELKQIYKKKTNNPIKKWVKDM NRHFSKEDIYAAKHKMKCSP SLAIREMQIKTTMRYHLTPVRM AIIKKS GNN
4393	34761	A	4434	2	1932	

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4394	34762	A	4435	1	2571	MKAEIKMFFETNENKDTTYQN LWNTFKAMCRGKFIALNAHKKR KQERSNTDTLTSQKELKKQE THSKPSRRQEITKIRAEMKEIET QKTLQKIKESRTWFFEKINKIDR LLARLTKKKREKNQIDAINKNDK GDITDPTEIQTIREYYKHLYA NKLENLEEMDKFLDTYTLPRLN QEEVESLNRPTGSEIEAIINSLP T/KKCPGPDGFTAEFYRRKRGVI LPNSFYEASILIPKPGDTTKKE NFRPISLMNIDVKILNKILANRI QQHIKKLIHHDQVGFIPGMQG WFNIRKSINIIQHINRAKDKNH MIISIDAEKAFDKIQQCFMLKTL NKLGDGTYLKIIRAIYDKPTAN IILNGQKLEVFPLKTGTRQGCP SPLLFNIVLEVLAIRQEKEIK GIQLGNEEVKLSLFADDMIVYL ENPIISAPNLLKLINNFSGSAY KIKVQKSQAFLYTNNRQTESQI MSELPFTIASKRIKYLGIQLTRD VKDLFKENYKPLLKEIKEDTNK WKNIPCSWVGRINIMKMAILPK VIYRFNAILIKLPMTFFTELEKST LKFIWNQKRARIAKSILSQKNK AGGITLPDFKLYYKATVTKTA WYWYQNRDIDQWNGTEPSEIM PHIYNYLIFDKPEKNKQWGKDS LFNKWCWENWLAICRKLKLD FLTPYTKINSRWIKDLHVRPKTI KTLENLGNITQDIGMGKDFMSK

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4395	34763	A	4436	1	1965	MTLESEQTFVYAVTATQTGAK EGTRMSKSNVAGQQGDSGEKA LQKTYQKILREKESALEAKYQA MERAATFEHDRDKVKRQFKIF RETKENEIQDLLRAKRELESKL QRLQAQGIQVDFPGESDSDNC TDVTAAGTQCEYWTGGALGSE PSIGSMIQLQQSFRGPEFAHSSID VEGPFANVNRDDWDIAVASLL QVTPLFSHSLWSNTVRCYLIYT DETQPEMDLFLKDYSPLKRM CETMGYFFHAVYFPIDVENQYL TVRKWEIEKSSLVILFIHLTPRI KYLGIQLTRDVKDLFKENYKPL LNEIKEDTNKWKNILCSWTGR NNVMKMATLPKVIYRFNAIPIK LPMTEFFTELEKTTLKFIWNQKR AHIAKTILSEKNKAGGIMLPDF KLYFKATVTKAAWYWCQNRD IDQWNRTEASEITPHIYNHLIFD KPDKNKKWGKDSL FNKWCWE NWLAI CRKLKLDPFLTPYTKIN SRWIKDLNVRPKTIKLEENLG NAIQDIGMGKDFMTKTPKAMA TKAKIDKWDLIKLKSFCMAKET PIGVNRQLTEWEKIFAIYPSDKG LISRIYKELKQTYKKKTNNPIEK LAKEMNRHLSKEDIYAANRHK KKCSSSLVIREMQIKTT/MRYHL TPVRMAIIKSGNNRCWRGCG
4396	34764	A	4437	300	476	PDLSLWLPLTFFPSQLW*I*QL CVLELLFSRSIFVAFSVFPEFES WPALLGWGSSPG

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4397	34765	A	4438	413	1689	QKLYKPERIKYLGQLTRDVKD LFKENY/KLNEIKEDTNKRKNIP CSWVGRINILKMAILQKVIYRF NAIPIELPITFFTCKLEKTTLRFIW NKKRVHIAKSIPSKKNKAGGIM LPDFKLYYKATITKTAWYLYQ NRDIDQWNRTEALGITPHIYNH LIFDKPDKNKQRGKDSL FNKW CWENWLVICRKLKLD AFLT PY TKINSRWIKDLNIRPKTIK TLEE NLGNTIQGIGMGKDFMTKTPK AMATKAKIDKRDILKLSFCTA KETNIRVNRQPIEWEEKIFAIYRS DKGLISRIYKELKQIYKKKTNN SIKKWAKDMNRHFSKEDIYAA NRHEKKWSPSLVTREMQIKTIM RYHLTPVRIMTIKMSGNNRCW RGYGEIGMLLHCWWECKLVQ ALWKT VWRFLKDLELEIPFDPV IPLLG IYPKDYT
4398	34766	A	4439	3	2404	
4399	34767	A	4440	1	1572	MLVSFVSLGSLCLQPGSQTLLE KNRTVKPHVSFTLLPALSHVSE KNEAESMNSLIPPPNLHTPAQ APFPLPTKEQDRSSSPATEQSW TENDFDELTEVGFRRSVITNSSK LKEDVRTHCKEAKNLEKRLHE WLTRINSVEKTLNDLKLKSMA RELHDTCTSFNSRFDQVEERVS AIEDQTNEINNGENGTKLENTL QDIIQENFPNLARQANIQIQEIRR TPQRYSSRKATPRHIIVRFTKVE MKEKVLRAAREKVLEVLARAI SQEKEIKCTQLGKEEVKLSLFA DDMIVCLENPVVSDHNVLKLIS NFSKVS VYKINVQKSHAFLYTN NRQTESQIMSELPFTITT KRIKY LGIQLTRAVK DFFKEYKPLL N EIKKDTNK WKNIPCSGRINIM KMAIVPKVIYGFNAIPIKLPRTF FTELEKTTLKFIWKKKGAKTILS IKNKAGGIMLPDFKLYYKATVT KIAWYWYQNR YINQRNRTETS EITSHIYNHL/IFDKPDKNKKWG KDSL FNKWCWENWL
4400	34768	B	4441	1	1558	

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4401	34769	A	4442	837	4329	TWKGTTDRSTRQKVNKDTQEL NSALHQADLIDIYRTLHPKSTE YTFF/LAPHHTYSKIDHIVGSKA LLSKCKRTEIITNYLSDHSAIKL ELRIKNFTQSRSTTWKLNLLLL NDYWVHNEMNAEIKMFFETNE NKDDTTYQNLWDAFKAVCRGK FIALNAHKRKQERSKIDTLTSQL KELEKQEQTTHSKASRRQEITKIR AELKEIETQKTLQINESRSWFF ERITKSDRPLARLIKKKREKNQI DTIKNDKGDIT
4402	34770	A	4443	1	816	MRRDYPVKAFTSRKREQHVQK VPSKKSQRQVQRTERRFLETPD LLYQKEKDLLLLISSSKQPRPGI ERHYMMTQSGSIHQEDVAILK/V YTSNKRASKYIQQ/TLLEIKGKI/ AHPQIVGDFNTPTSTIDRTIRQQI SIEFYDTIKQWDLTDCRTGHP TEYIFCSGAHLTFTKINHIQGP RILKRFRKRIEIECVLVKGCQA KNRKKEEDLQTYWMLNIYGPH YRSGSYAAIHRQETICSGQLSQ ALRDRFAMNAKLLLSLAHLW VIKLDPM
4403	34771	A	4444	87	307	
4404	34772	A	4445	1	534	MEESRGAKPPPALLPGDATLPP GSLGSARHPPEP/RPVGP/PPHQ TCPGPSACSSRRPEPRSSPGSPA RAPPAPPPAAPAPRCEPPLWLL LRVPCPGRSGWSWMTT*I/SERP VQKRARSGPQRLPPCLLPLSPP TAPDRATAVATPPVLGPMSSW SPRRAGGPTRPCTALQALSIPA
4405	34773	A	4446	164	660	YPSGRRLEPADVADAWDGM ESRGAKPPPALLPGDATLPPAP SGQLGTRPSPSSRPSPHQTC PGPSACSSRRPEPRSSPGSPAR APPAPPAAPAPRA/SPRRPLPAP ASVPAFSAAPPQWPEVGPSPCA LRRAMPRGPGPPPEPRLVAEP G
4406	34774	A	4447	1	417	EDAAPTAGR

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4407	34775	A	4448	1	1802	MSYPADDYESEAAYDPYAYPS DYDMHTGDPKQDLAYERQYE QQTYQVIPEVIKNFIQYFHKTVS DLIDQKVYELQASRVSSDVIDQ KVYEIQDIYENSWTKLTERFFK NTPWPPEAEAIAPQVGNDVFLI LYKELYRHIYAKVSGGPSLEQ RFESYYNYCNLFNYILNADGPA PLELPNQWLWDIIDEFIYQFQSF SQYRCKTAKKSEEEIDFLRNP KIWNVHSLNVLHSLVDKSNIN RQLEVYTSGGDPESVAGEYGR HSLYKMLGYFSLVGLRLHSL GDYYQAIKVLENIELNKKSMYS RVPECQVTYYYYVGFAYLMMR RYQDAIRVFANILLYIQRTKSM FQRTTYKYEMINKQNEQMHAL LAIALTMYPMRIDESIHLQLREK YG\DKMLRMQKGDQPQVYEELF SYSCPFL\SPVVPNYDNVHPN YHKE\PFLLQ\QLKGVF**SSSQ AQLS\TPIRSFLKLYT\TMP\VAK LAGFPGPSQSQEF\RI PGFFVFKQ QDERTSVWTQRVFSAPGW*N SQASEVDFY\DKDM\HIADTK VA\RRYG\DFFIRQ\HKFEEELNR TLKEGWGQRPWMIFHTHFREP GFECIIQGGSVFC

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4408	34776	A	4449	1	1722	MNIKAKILNKILANRIQQHIKKL IHHDHVSFIPRMQGWFNHKKPIN VIHHINRTNDKNHMIISIDAEKA FDKIQHPFTLKTNLKDDMTVY LENPIVSAQNLLKLISNFSKVS YKINVQKSQAFLYTNNRQTESQ IMSELPFTIASKRIKYLGIQLTRD VKDLFKENYKPLLKEIKEDTNK WKNIPCSWVGRINVVKMAILP KVIYRFNAIPIKLPMTFFTELEK TTLKFIWNQKRARIAKSILSQK NKAGGITLPDFKLYYKATVTKT AWYWYQNRDIDQWNRTEPSEI MPHIYNHLTFDKPDKNKQWGK DSL FNKWCWENWLAICRKLKL DPFLTPYTKINSRWIKDLNVRP KTIKTLEENLGNTVQDIGMCKD FMTKTPKAMATKAKIDKWDLI KLKSFCTSKETIIRVNRQPTWE KMFAIYPSDEGLISRICKE/LFKQ IYKKKNHPIKKWAKDMNRHFS KEDIYVANKHMKKSLSSLVIRE MQIKTTMRHHLTPVRMTIHKKS GNNRFWRGCGETGMLLHCWW ECKLVQPL*KIVW*FLKDLESEI PSDSAIPLGGIHPKAYKSFFY
4409	34777	A	4450	1050	1147	PGEWHGQGSRCWR*PLPQRC GHLLSCRWRTP
4410	34778	A	4451	1	614	MEELVDEGLVKALGVSNFHSF QIEKLLNKPGLKYKPVTNQNSL GTMQNRAGFPRDEDCLLLQVE CHPYLTQEKLQYCHSKGITVT AYSPLGSPDRPWAKPEDPSLLE DPKIKEIAAKHKKTAAQVLIRF HIQRNVIVIPKSVTPARIVENIQN TEHYKYCGLCVGNLEKNLYP VDRM/WKNSCGQFVL*ISSHLE DYPFNAEY
4411	34779	A	4452	2	240	WMELESLSHFQIEKLLN/KPGL KYKPVTNQVNSIQFKGSILEEGI VNMGGDSSMHVSAPEDPPVGQ DVEAEDSDTDDPDPV
4412	34780	A	4453	1	1019	
4413	34781	A	4454	1	2028	

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4414	34782	A	4455	3	1045	DFTSENFSAAWYLIENHSNTSF EQLKMAVTNLKRQANKKSEGS LAYVKGGLSTFLEAQDALSAIH QKLEADGTEKVEGSMTQKLEN VLNRASNTADTLFQ/EKVLGRK DKADSTRNALNVLIQRFKFLFN LPLNIERNIQGDYDVVINDYE KIAKSLFGKTEVQVFKKYYAE VIEPRVEALRELL\DKLLETPTST LHDQKRYIRYLSDLHASGDPA WQCIGAQHKWILQLMHSCKEG YVKDLKGKDFSSNVFQFSGSAL RRVPDTRVRLDSQFSRSALRSV PDTVQVLDSQFSGSALRRVPDT VRVLDGQFSRSALRSVPDTRV LDKCHCSPAKVVMNAVITFTG
4415	34783	A	4456	1	440	MQRNLARAFSPGIKKIKMMCL GNSEKDWPKFRGVGEDAGLLA ARECGALLVIRHLINAVRAIVP NKSNNIILVLQHFDNCVDK\TV QAFMEGSASEVLKEWTVTGKK KLLLQGEELARLPFITGGSGSC YSSSTLAVEEECRVLA
4416	34784	A	4457	1	276	MEDEMEGLTEAGFRRWVTNS AELKEHVLTQCKEAKNLDKRL EELSRITSRLERDISDQME/RELC EAYTSINSQINQAEERISEFEDH LAEI
4417	34785	A	4458	3	361	EMVHRKKKAVHRTATADDDK LQFSLKKLEVNNVSGIEEVNMF TNQGTVIHFNAEMPANSFTITG HAETKQLMEMLPSILNQLGAH CLTSLRRLAEALPKQSVNGKAP LATGEDDDDEVPA
4418	34786	A	4459	1	475	
4419	34787	A	4460	57	820	EDGSGGGKFPEGARQGGTGQR RRRKAMRRTGAPAQADSRGRG RARGGCPGGEATLSQPPRGGT RGQEPQMKETIMNQEKTHTC RAQ\VRIGGKGTARRKKKVH RGAAS/ADDKKLQFSLKK\LG NNISGIE\EVNMFTNQGTSGST FNNP*KFQGISWPANTFHHLQG HAEDKGS*QEMLAQHLKPSLG ADSLTSLRRLAEALPKQSVGDK APLATGEDDDDEVDPDV\ENF* *RLPRNEANLNLSQLLKIP
4420	34788	A	4461	1	1527	

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4421	34789	A	4462	8	327	LIWQLTFTKTIKS/CEEYGKIVST KAILDKNTNQCKGMCKGIRTL KSCLCYLINGSSIVEVQKRLAY AGTLEPSLVHQVYSELSYYKLP GTQVVRIIAEVLRMQDSSE
4422	34790	A	4463	2	573	WMEGREKWRGRRKDGRKEGR KEGRKERRREREKGRERK/GKE RKGKERKGGKERKGGKERGRER KGTEGKGTEGKGKERKGGKEGK GKERKGGKERKGGKERKGGKEGK KEQKGKERKGGKERKGGKERKGGK ERKGGKERKGGKEEGRERKGGKE GKGRERKGGKEGGKEEGRERKERR KEGRKEGKKFSNNGMVEEMQ
4423	34791	B	4464	1	1344	
4424	34792	A	4465	3	373	
4425	34793	A	4466	1	3864	MQWEEAEKDPSGSCVFQRPV ALVFPLHSKWTLVNSPPSSGDP YVPGRPAQSGQLSLSPAPPYVL PGPGKIKQAGNNPSLTSIYRSEV FCAHRHLHPPQLVCARGHIGSA HLSVDRGSLIWEVLESTVWART NEWSPVTRTVLISALASTHIPQP CESRPPVPPEYEVTVLRSQGT QLPPWSSSTSWRLTDPSCPKHA AWLTDLASSKGPAAGGTGSFS QPGTLTSTRTNPLKKEKSPEDL KQIKIDLGKFSN
4426	34794	A	4467	3	415	
4427	34795	A	4468	396	676	LCFPYAERPDLQFLC*DLCARSP YLLQAQKYLQEF*AIPHLDQQT EPPDPSVSFYLLDCTLNCTAQH KTC*KKSIQGL*EQNQQLSSIPY SHT
4428	34796	A	4469	1	858	MEWEDNLPLELGRTVAKLLSD HSQTPLGIQMFLFLSLRKSPL VCLSYLFNFRFTLESEVQHLSG AITLTAWPKIPFLGIREAKSPRS ENTRLATILEAGHRHLGTSVSK DHPVTFWRPRDLQSDLKQIKI DLGKFSDNPDGYIDVLQELGQS FDLTWRDIMLLLNQTLTPNERS ATITAAREFGDLWYISQVVAAV AGLVSEAVKHQGLTVWT/SHD VNGILTAKGDLWLSDNHLLKY QALLLEGVLRRLRTCATLNPAT FLPDNEEKIEHNCQQVIAQTYA
4429	34797	A	4470	918	1939	

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4430	34798	A	4471	3	2693	PQVCLTIESQEVNCLLDAGAAF SVLLSCPGQLSSRSVTIRGVLGQ PVTRYFFQPLSCDWGALPFSHA FLIMPESLTPLLEREILVKAGAI HLNIGEGTPICRLLFEEGISPEV WATEGQYGQAKNAHFVQVKL KDSTSPYQRQYPLRPEAQQL QKIVKDLKAQGLVKPYSSPCNT PILGVQKPKRQWRLVQDLRIIN EAVFPLYPAIPSPYTLLSQIPEEA EWFTVLDLKDFAFFCIPVHPDSQ FLFAFEDPSNPTSQLTWTVLQP GFRDSPHLFGQALAQDLSQFSY LDTPLVLCMDLLLAARSETLC HQATQALLNFLTTCGYKVSKEP KAQLCSQQVKCLGLKLSKVTR ALSEERIQPILAYPYPKTLKQLR GFLGITGFCRIWIPRYGKIARPL YTLIKETQKANTHLVRWTPAEAE AAFHALKKALMQAPVLSLLTG QDFSSYVTKNKQTKKKKVT*IA LRVLALV*GTSLQPVAYLSKKT DVVAKGWPHCLWVMAAIAVLI SKAVKMIQ*RDLTVWTS HDVN GILTAKGDLWLSDNHLLKYQA LLEGPMLRLCTCAALNLDFTL PHNEEKIEHNCQQVIAQTYATR GDHLEVPLTDPNPNLYTDGRSF VEKGLQKVG YAVVSDNGILES NPLTPGTSAQLAELIALTWALE LGEGKRVNIYTD SKYAYLV LH AHAVIWREREFLTSEGTPIKHQ
4431	34799	C	4472	11	1639	
4432	34800	A	4473	95	2539	
4433	34801	A	4474	345	768	PRGARSTRCLPVERRICDGLQD CGDGSDEAGCPDLACGRRLG SF YGSFASPD LFGAARGPSDIHCT WLVD TQDSRRVLLQLELR LGY DDYVQVYEG LGERGDRLLQTL SYRSNHRPVSLEAAQGRLTVA YHARARSHPLMNE
4434	34802	A	4475	47	563	RLRFAVFTGAFHALSFLLSFVV LCCTYLKGLKVARFHCKRIDV/ MHHADARAAGGPAPQCAGTLS VEEQRRRQRATKKISTFIGTFL VCFAPYVITRLVELFSTVPIGSH WGVLSKCLAYS KAASDPFVYS LLRHQYRKSCKEILNRLHRRSI HSSGLTGDSHSQNILPVSE

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4435	34803	A	4476	1	332	ERGRQEMSAKLRPPAEPPCVPARISP*RPS*RQ*MERRCPPWRCS PMPC/CFFREHALQVRCGPTSA DCGRDPLFSPHPKPLPHVPDIG WVATAGAQRSSSPVPSSLFVW
4436	34804	A	4477	297	943	TGSWGGGGADQLRPALTALM PPDNRFGENTPAAPANGHCAP EPDITLVQDHSELPIGAAATMA HEIGHSLGLSHDPDGCCVEAAA ESGGCVMAAAT/GVRGHPFPRV FS/SCSRRQLRAFFRKGGGACLS NAPD/TRTPGAAALCGNGFVEA GEECYCVS\GQECRDLCFFAHN CSLRPGAQCAHGDCCVRLVR/ CMEGSGSHQLPRLVPGGDSAEI LM
4437	34805	A	4478	1	836	MGPLTFRDVKIEFSLEEWQCLD TAPGNLYRDVMLENYRNLVFL VMCSHFAQDVWPEHSIKDSFQ KVILRTYGYGHENLQLRKDH KSVDACKVYKGGYNGLNQCLT TTDSKIFQCDKYVKVFHKFPNV NRNKIRHTGKKPFKCKNRGKSF CMLSQLTQHKKIHTREYSYKCE ECGKAFNWSSTLTCHKIHTGE KPYKCEECGKAFNRSSNLTKH KIIHTGEKPYKCEECGKAFNRS STLTCHKRIHTEEKPYKCEECG KAFNQFSILNKHKRIHMR
4438	34806	A	4479	1	588	MLGKVQQQEQTIAKDLVVTKY KMCGGT/DIANRVLRSLVEASS S\GGQDYILKEGDLVKIDLVH VDGFIAVTHTFVVDVAQGTQ VTGRKGDVIAAQLCVEAALC LVKPGNQNIQVREAWSKVALS FNCMPIEGMLSHQLKQHVIDGE KNIIQNPTDQQKKDHEKAEFEV HEVYAADVLVSSGEGKAKDAG
4439	34807	A	4480	85	561	LSHCLPLQTTEVGGFGNLLGY WIACSIGCVLSTGMLSHQLKQH VIDGEKTIQNPTDQQKKDHEK AEFEVHEVYAVDVLVSSGEGK VRRVPELAKRGD*ECSPDQMLL KLLFQAKDAGQRTTIYKRDPK QYGLKMKTSRAFFSEVERRFD AMPFTLRY

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4440	34808	A	4481	1	1408	GTSAPQPARSQLLALACLPA LARAFAARPLLEDGRGDSHSLW LGRETEAAAAAQGKRGCSSGR KMSGEDQEQQETIVD/DSLVT KYKMGGDIANRVLRLSVEASS GVSVLSLCEKGDAMIMEETGKI FKKEKEMKKGIAFPTSISVNNC VCHFSP/L*KSDQDYILKEGDLV KIDLG\H\VDGFIANVAHTFVV DVAQGTQVTGRK\ADV\KAAH L\CAEAA\RLRVKPGNQNTQVT EAWNKVAHSF\NCTP\EGMLSH SLKQHVIDGEKP*FQNPTDKQK\ RAHEKADFEVHDVYAVEGLV KPQERARPKDAGQRTTIYKRDP SKQYGLKMKTSRAFFSEVERRF DAMPFTLRAFEDEKKARMGV VECAKHEL/VWQPFNVLYSGRE GDFVCPVLNFTVL\LMNGPML ITSGPFEPDLYKSQMEVQ\DAEL KALLQSSASRKTQKKKKKKAS KTAENATSGETLEENEAGD
4441	34809	A	4482	3	190	
4442	34810	B	4483	1	588	
4443	34811	A	4484	1	1312	MSSKGSVVLAYSGGLDTSILV WLKEQGYDVIA\LANIGQKED FEEARKKALKLGAKKVFIEDVS REFVEEFIWPAIQSSALYEDRYL LGTFFAARPCIARKQVEIAQREG AKYVSHGATGKGNDQVRFELS CYSLAP\QIKVIAPWRMPEFYNR FKGRNDLMEYAK\QHGIPIVTP KNPWMDENLMHISYEAGILE NPKNQAPPGLYTKTQDPAKAP NTPDILEIEFKKGVPVEGGPTF KDG\TTHQTFL\ELFMYLNEVA GKHGVGPYLTSWENRFHWELK SRGILRRPQAG\TILYHAHL DIEAFTMGGDRAQIPNQGLGF FVE LGVYRFSGTAPECELVGP CLRQSPQERVEGKSAGVPSLKG PRCTSLGPEVPHCSLYNE\ELV KHGT CQGDYE\PN*LPPGFIQTS ISLKA EGN\YHRLPRAKVTAQIR PRVQ
4444	34812	B	4485	47	482	

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4445	34813	A	4486	2328	3435	KTTTLEDNLGNTIQDIGPGKDF MMKIPKANATKIKIDEWDLIKL KSFCTAKATTKRVNKHDESLRS HYE*WGMLTDCVVMRDPNTK RSRGCGFVITYATVEEVDAATN ARPHKVDGKVVEPKRTVSRED SQRPGAHLTVKKIFVGGIKEDT GGFAFVTFDDHDSVDKIVIPKY HTVNGHNCEVRKALSKQEMAS ASSSQRGRSGRGGGFGGNENFG CGGNFSGHGGFGGSHDGGGYG GSGDGYNGFGNDGGYPGGGPG YSGGSRGYGSGGQCGNQDSG YGRSGSYDSCNKGGRGGFGSG SGSNFGGGGSYNDFGNYNQY SNFGPMKGGNF/GGRRSGP*GD GGQYFAKPPNHSGYGGSSSSSS
4446	34814	A	4487	1	762	
4447	34815	A	4488	3	333	
4448	34816	A	4489	1	1676	MRDPNTKRSRGFGFVITYATVE EVDAAMNTTPHKVDGRVVEPK RAVSREDSQRPGAHLTVKKIFV GGIKEDTEEHHLRDYFEQYGKI EVIEIMTDRGSGKKRGFAFVTF DDHDSVDKIVIQKYHTVKGHN CEVRKALPKQEMASASSSQRG RRGSGNFGGGRGDGFGGNDNF GRGGNFSGRGGFGGSCGGGGY GSGDGYNGFGNDGSNF*G\GG SYNDSGNYNQSSKFPEPMKGG NFGGRSSGPYGGGGQYFAKPQ NQAARCVAARWLFRTEARLVF LQKFPPWAVEVVTIVIVAAPA AATATTRDGGGCSRNCNIEVF PELLGCPNRRGPPGGVREKQQQ TNSKSTRRQEITKTIAELKEIETR KTLQKINESRSWFYEKINKVDR LLDRLIKKKREKSQIDAIKNDIG DIVTDPAEIQTTIKEYYKRLYAN ELENLEEMDKFLATYSLHSLNQ EEVESLNKPVTSSEVEAVTNSL PTKKSPGPDGFTVLLEVLAPAIR QEKEIKHIPIGREEVKLSLFADD VIVYLENPIVSAQNLLKLISNFS

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4449	34817	A	4490	1	1445	MKCLKFINHKEILEASERKQAE SLDFPFKKLRWHLCEGWIEER DESRKSETIFKDLFKVPVLKETI YYKFYGPVYQIETVYFMALSP PKSKQFDKTKQNNNNKKTHQF VIVFFKTDEHLSARGRRRSIVK VSLPAVIGLKSKFLKKPDQLR KLFVIGGLSFETTDESLRSHFEQ WGTLTDCVVMRDPNTRSRGF GFVTYATVEEVDAAMNARPH KVD\GRVV\EPKRAVSREDSQRP GAHI\TLVKKIFVGGIKEDTEEH HLRDDYFEEIILNSMEKIEVIEI MT\DRGSGKKRGFAFVTFFDDH DSVDKIVI\QKYHT/VGNGHNCE VRKALSKQEDG*VLHPAQRG\ RSGSGKLLVVGRRWFVSGMD NFG\RGGNFSWSV\AFGGTRG\ GGGYGWQWGMAYNGFGNDG\ SNFGGGG\SYNDFG\NYYNQISS NFGPMKGGNFG\GRSSGPYG\ GGQYF\AKPR\NQQGYGGSSSS\ TVLNSMSVILAISTLLKIITGELL QSFQDGLLWNLVIGIRGIDGLSP KVRKVLQLLRQIFN/GTFVK LIKVTVNMLRTVEPYIAWGYPN LKSVNELIYKHGYGKISKKRIA LTDNVLARS LGKYGIICMEDLI YEIYTVGKRFKEANNFLWPFKL
4450	34818	A	4491	134	612	
4451	34819	A	4492	1	1983	
4452	34820	A	4493	1	1527	
4453	34821	B	4494	1	2211	
4454	34822	A	4495	1	2478	
4455	34823	A	4496	2	1544	
4456	34824	B	4497	1	2151	
4457	34825	A	4498	1	744	
4458	34826	B	4499	1	2172	

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4459	34827	A	4500	1	2535	MKSGHPEKEQDNSDVQETREIT IRGLLCTALMRHSTGAIAYLGV LSGSASLKLKAGVPLRCCEGDKD AGHPLETQTALCERGRGARS LV GNTIMTSQPVPNETIIVLPSNVIN FSQAEKPEPTNQGQDSLKKHLH AEIKVIGVNLIQNVLERGWGKC QEMIVVLGLDICRPFVSRVSEE GRMGQRGEEDANS LDFPPASLL CLICQEQGVNGESCPVGM YH REIVPVYEVL SVITGLQIQVFSG KEADSVIKRSIGWGPFFKPR TK DKNHMIISIDAEKAFDKIQQH F MLKTL SKLGIDGTYLKIIRAIYD KPTANIILNGQKLEAFPLKTGTR QGCPLSPLLFNIVLEVLARAI RQ EKEIKGIQLGKEEVKLSLFADD MIVYLENPIVSDQNLLKLISNFS KVSGYKINVQKSQAFLYTNNR QTESQIMSELPFTIASKRIKYLGI QLTRDVKDLFKENYKPLLNEIK EDTNKWKNI PCSWVGRINIVK MAILPKVIYRFNAIPIKLPM TFF TELEKTTLKFIWYQKRARITKSI LSQRNKAGDITLPDFKLYYKAT VNKTAWYWHQNRHIDQWNRT KPSEITLHIYNLFFDNPDKNKK WGKDSL FNKWCWENWLAICR KLKLDPFLTPYTKINSRWIKDL NIRPKTIKTLEENLGITIQDIGMG KYFMTKTPKAMATKAKIDKW DLIKLSFCTGKETTIRVNRQPT
4460	34828	B	4501	1	1785	
4461	34829	A	4502	1	1415	
4462	34830	B	4503	1	3262	
4463	34831	A	4504	1	278	

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4464	34832	A	4505	3	2528	ENKDTTYQNLWDAFKAIVCRG KFIALNAHKKRQKEKSIDTLTS QLKELEKQEQTTHSKASRRQEIT KIRAELEKEIDTQKTLOKINESRS WFFERINKIDRPLARLIKKKREK NQDITKNCCKGDIITDPTEIQTT IREYYKHLIYANKLENLEEMDK FLNTYTLPRNLNQEVEESLNRPI GAEIVAISSSLPT/K/KSPGPDGFT AEFYQRYKEE/LEKEGILPNSFY EASIIIPKPRDATKKENFRPIS LMNIDAKILNKILAKRIQQHIKK LIHHDQVGFIPGMQGWFNIRKS INVIQHINRTKDKNHMIISIDAE KAFDKIQQRFLKTLNKLIGDG TYFKIIRAIYDKPTANIILNGQKL EAFPLKTGTRQGCPLSPLLFNIV LEVLARAIQEKEIKGIQLGKEE VKLSLFADDMIVYLENPIVSAQ NLLKLISNFSKVSGYKINVQKS QAFLYTNNTQTESQIMSELPFTI ASKRIKYLGIQLTRDVKDLFKE NYKPLLKEIKDDTNKWKNIPCS WVGRINIVKMAILPKLPMTFFT ELEK\TTLKFIWNQKRACIAKSI LSQKNKAGGITLPDFKLYYKAT VTKTAWYWYQNRDIDQWNRT EPSEIMPIYNYLIFDKPEKNKQ WGKDSL FNKWCWENWLAICR KLKLDPFLTPYTKINSRWIKDL NVRPKTIKTLEENLGITIQDIGL GKDFMSKTPKAMATKAKIDK
4465	34833	B	4506	1	5401	
4466	34834	A	4507	1	5271	MNIDAKILNKILPNQIQQHIKKL IHHDQVGFIPGMQGWFNIRKSI NVIQHINRAKDKNHMIILIDA EK SFDKIQQPFMLKTLNKLIGDGT YFKIIRAIYDKPTANIILNGQKLE VFTLKTGTRQGCPLSPLLFNIVL EVLARAIQEKEIKGIQLGKEEV KLSLFADDMIVYLENPIVSAQN LLKQISNFSKISGYKINVQKSQA FLYTNNRQTESQIMSEIPFTIAL KRIKYLGIQLTRDVKDLFKENY
4467	34835	B	4508	924	3423	
4468	34836	A	4509	525	673	RDSWGTCPVSGAGKVDWPPSS *HHR*HQQWCCGMPHQLSTKE NISIKDHLTKEKRKGGAV*RII

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4469	34837	A	4510	25	1766	GTCQFAAMNVVFAVKQYISKM IEDSGPGMKVLLMDKETTGIS MVYTQSEILQKEVYLFERIDSQ NREIMKHLKAICFLRPTKENVD YIIQELRRPKYTIYFIYFSNVISK SDVEVIGLKLIEQEVVAEVQEF YGDYIAVNPHLFSNLGCCQG RNWDPAQLSRTTQGLTALLSL KKCPMIRYQLSSEAAKRLAECV KQVITKEYELFEFRRTVPPLLL ILDRLDDAITPLLNQWTYQAM VHELLGINNNRIDLSRVPGISKD LREVVLSAENDEFYANNMYLN FAEIGSNIKLMEDFQKKPKKE QQKLESIGSMKA\FVENYPQFK KMSGTVSKHVTVVGELSRLVS ERNLLEVSEVEQELACQNDHSS ALQNIKRLQLNPKVTEFDAARL VMLYALHYERHSSNSLPGLM MDLRNKGVSSEKYRKLVS AVVE YGGKRVRGSDLFSPKDAVAITK QFLKGLKGVGNVYTQLQPFLL H\ETLDHLIKGRLENLYPYLGP STLRDRPQDIIVFVIGGATYEEA LTVYNLNRTPGVRIVLGGTTV HNTKSFLEEVLASGLHSRSKES
4470	34838	A	4511	1	1335	MAPVTMMGYRSGKMGLADV QLQVGPWPWLHLVVIAPVPEC ITGIGIFSSWGSPDVGPLLYDIR AIMWGS LAPAENTWILGNNHR RFLAQLKPRVIMQDFSNVSKS DVKSLAEADEQEVVAEVQQVI TKEYELFEFRRTVPPLLLILDR CDDAITPLLNQWTYQAMVHEL LGINNNRIDLSRVPGISKDLREV VSSAEIDEFYANNMYLNFAEIG SNIKLMEDFQKKPKKEQQKL ESIADMKA\FVENYPQFKMSGV TVSK\HVTVVG\ELSRLVSE LAGRFSEVEARNWAC\QNDHS\ SALQNIKRLQLNPKVTEFDAAR LVML\YA\LHYERHSSNSLPGL MMDLRN\KGVFWRKYSKARVL AVVEYGGKRVRGSDLFSPKDA VAITKQFLKGLKQQEIVNCVLA AANVYIKQLPLSIQPSASLNGCI SLEKKPLVSTQRN
4471	34839	A	4512	1	816	
4472	34840	A	4513	26	257	
4473	34841	A	4514	56	236	

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4474	34842	A	4515	170	373	HSPRGSTASF/CEVSETKNPPID TPATREAEGRLRSRLAVYSTRDS PCVACSGSYTQAQGSGLGRKFQ DP
4475	34843	A	4516	262	358	
4476	34844	A	4517	2298	2556	NHKNPRRKPRQYHSGHRHGQG LHD*NTKSNGTKSNGNKSQN* Q\WDLINLKSFCTAKETTIRVNR QPTWEKIFTIYPSDKGLISRI
4477	34845	A	4518	801	944	DQEPTNSRHILATQMGPSPTKQ SNPGV**KECGFSCSPRVWRYL VS
4478	34846	B	4519	85	660	
4479	34847	A	4520	693	827	
4480	34848	A	4521	272	339	
4481	34849	C	4522	532	2754	
4482	34850	B	4523	1	519	
4483	34851	B	4524	266	935	
4484	34852	A	4525	1	1584	
4485	34853	A	4526	1	723	GALPNGDRGRRKSRFALYKRP KANGVKPSTVHVISTPQASKAI SCKGQHSISYTLRNQTVVVEY THDKDITDMFQVGRSTESPIDFV VTDITSGSQNTDEAQITQSTISR FACRIVCDRNEPYTARIFAAGF DSSKNIFLGEKAAKWKNPDPGH MDGLTTNGVLVMHPRGGFTEE SQPGVWREISVCGDVYTLRETR SAQQRGKLGQTGDMAENT/T VHALPSNMCVWRRSQTRQQIS
4486	34854	A	4527	1	335	
4487	34855	A	4528	328	871	DCGGGRARTAIFAGAARAADN KKCAGARRALGRARGCSATAR PRRRRRRPRGLAPPRPARPPG GMSYKPNLAHMPAAALNAA GSVHSPSTSMATSSQYRQLSD YGPPSLGYTQGTGNSQVPQSKY AELLAIIEELGKEIRPTYAGSKSS W\ERL\KRGIIHARGLVRECLAE TERNARS
4488	34856	A	4529	1	653	MAGPAESSPQGAHPNSPFALQH HSSLTVKPLHRQNVIQHQVAG QENRRGHQAGSSTSPQPLEALK RPNLRAPFHSQSRRIIPPAGNP TPGAAAPADPSTQRRDRWGCA LPMPRVAAGSAHHQAGPTAA AQHRTPVALFSPPLSLVYGGQQ RKESETPTVPTPPARARGWTET GVEHVPAYNRTAPEKCDI/SV PSPHSSPDAETSHPRHISPCPG

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4489	34857	A	4530	3	432	NSRVDDFVAAQDAKGKKVAP APAVVKKQEAKKVVNPLFEKR PKNFGIGQ\QRL LARA EKKAAAG KGDVPTKRPPVLRAGVNTVTT LVENKKAQLVVIAHDVDPIELV VFLPALCRKMGPVYCIK GKAR LGRLVHRKTCTTVAFT
4490	34858	A	4531	1	2073	MKPCAHSWNAELSRNIIRHSFN LVMVAASQVAVSQLLSYEILL LVSIELMFCFGLGYFFIPMQEW PNTYGERVFVDVESSVFKWNH KCLHKTEAERDYTKKRLKLCG HKPGNAVGGQKLEEARNRFFT RAPGGSAAALPTLRFQPSD TDFR LLASRTILTFETKNPSELAERLR SVCNGQSNAYARLLEYRLNAL RGLWNAQRQLALEEQHERESS GDEETLALLKRQGLLQQPEQAP FTSRMGLLLVFPLIQSQSRTDPS LCNITAEVLLNCLRDCQPLSLT KEPADCLNGIETLLCSWLEETS DTGRHIPHKQKENAAAALVAL ACARGFVYCRNEELEPGWVAF GSGSLLHRPVSF DNKPHSLFQVI DQNTLQVCQVVPMPANHLPIG STMSTVHLSSDGTIFYWIWSPA SLNEKTPKGHSVFMDIFELVTL KGKKAKGKKVAPAPAVVKKQ EAKKVVNSLFEKR\DIQPKRELT YFVKW/PRYVRLQQQRAILYKQ LKVPAINQFTQALNCQTVTQL LKL AHKYPETKQEKQRLLA QAEKKAAGKGGVPTKRPPALR AGVNTITTLVENKKAQLVVIAH DVDSIELVVFLPALCCKMGVPY CIK GKARLGRLVHRKTCTTVA FTQVNLEDKGALAKLVEGIRTN DNDRYDEICCHWGGNIGPKS VACIAKLEKAKAKELATKLG
4491	34859	A	4532	1	2565	
4492	34860	A	4533	1	644	MPKGKKAKEKKVAPAPAVVK KQEAKKVVNPLFEKR PKNFGT GQDIQPKRDLTHFVKWPCYIRL QQRTILYKWLKVPEINQFTQ APDSQTATLLLKL AH/KYRPET NQEKQRL LARAKKKAAGKG DIPVTKSPVLRAGVNTITTLVE NKK AQLVVIAHDVDPIKLVVFL PVLCHK/MGVPYCIK GKARLG HLVHRKTCTTVTFTQVNSEDK

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4493	34861	A	4534	1	931	KSIQKGLKMCLSSSLPPSKMP KGKKAKGKKVAPAPAVVKKQ EAKKVVNPLFEKRPKNFGIGQ DIQPKRDFTRFVKWPRLLSGC MR\KRAILYKAG*KLPPA\INQF HPGPWDPANKLLQLL*AWAHK \YRP\ETKAKRKKQRL\LARA\E KKAA\GKGDVPNERDPPV\LRA\ GVNTVTHLWWRNKKAPAWVV IATRRWIPFEL\VVFLPAL\CREK WGSPYCIHKGARLGR\LVHRR PCT\TVGFHTR*NSDKRRLLA* AGLEAIRTQFTIDQIRWRSGRH\ WG\GNVLG\PKSVARIRQASKR QRLKELATKLG
4494	34862	A	4535	3	227	
4495	34863	A	4536	1	338	
4496	34864	A	4537	1	352	
4497	34865	A	4538	2	368	
4498	34866	A	4539	3	468	
4499	34867	A	4540	2	790	PRGRNRRRKTFQERRMTLNESP EKIGKWIECYGHPPASKLVEIYI HTVFVEDKLSICIRSFNKKADGS WRMTVDYCKLNQVVTAIAAAI PDVVSLLQINTSPDTWYAAID LANALFSIPVHKGYINSLALCH NVIWRELD CFS LPRDTTLVHYI DDIMLIGSSVQEEVENKDLLVK DKLLHLAPPTTKEEVQHMVGL FGFWRQHIPHLGV LHQPIYRVI RCAA/SFEWGPEQE KALQQVQ AAVGGKQSENNLGHQRSPGLW
4500	34868	B	4541	179	1219	
4501	34869	A	4542	1706	2517	THLLVPGMQPLTWQMPFSPFLS ISPTRSNLPSAATPVIAQWA/HE QSGHGGRDGGYTWAQQHGLA FTNTDLATVNAKIGFAYPVCDA SAKTTIRGLLECLIRCDGIPHSIA SDQARIHRSRNQEVEVEVAPLT ITPSDPLAKFLLSVPVTLRSAGL EVLVPGEGMLPPGNTRTIPLNW KLRLPPGHFGLLLTLSQEAKNG VTVLAGVIDLDYQDEISLLLHN GGKKEYARNTGDPLGRLLVLP CPVIKINGKLQQPNPGGTTNGS DPSGMKV

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4502	34870	A	4543	3	367	DLWPFTRVT VH/WGKANDQTF QGLLD TGSEL TLIPGYPKRHCC PPVKVRVYGGQTDG SWRMTV GYHKL NQVV TPIAAAVPDVVS LLEQINTTPAIK WVVHSSIPSSN GSGVYVIRLEQVLKAQ
4503	34871	A	4544	2	541	
4504	34872	B	4545	1	681	
4505	34873	A	4546	2	1091	PRGRNRRRKTFQERRMTLNESP EKIGKWIECYGHPPASKLVEIYI HTVFVEDKLSICIRSFNKKADGS WRMTVDYCKLNQVVTAIAAAI PDVVS LLEQINTSPDTWYAAID LANALFSIPVHKGYINSLALCH NVIWRELD CFS LPRDTTLVHYI DDIMLIGSIKFLGVQWCGACRD IPSKDPADPMVLEVS VADRD AV WSIWQALIDESQQRPLGFWSKS LPSSADNYSPFERQLLAYYWAL VETERSTMGHQVTMLPELPVM NWVLSDPSSHK/ANGLAGWSG TGKKHDKWIGDKIEWRRGMW MDLSEWSK/D/VKIFVSHVSAH QRVTS AEEEFNNQVDRMTRSM DTTQPLYPTTPVIAQWAHE
4506	34874	A	4547	1	1236	
4507	34875	A	4548	1	1467	GEKGNDQTFRKL LDTGSELM LI PLRVVIPTTSLFNSPIWPVQKTD GSGRM RVDYHKL NQVM TPTA AAVPDVVSLFEPINTFLGTWYA AIDLANALFSIPVCKAHQKQFA FSWQQQYTF T VLPQRYINCLA LCHNLIQRDL DHFLLPQGITLV HYIDSGPFIK*PEAASF EWGPEQ EKALQQVQA AVQAALSIGPYD PADPMVLEVS VADGDAVWSL WQAPKGESQWRPLGFWSKALP SSTDNYSSDVQLYTDSWAVA SSLAG*SGTWKKHDKWIGDK EI WGRGMWMDLSEWSKTGKIFV SHVNAHQLVTS AEEDFNNQVD RMTRSVDTTQPLSPATPVVAQ WAHEQSGHGGRN EGYAWTQQ HGLPLTKADLTATAECPICQQ QRPTLRPRYGTTSQGDQPATC WQVDYIEPLPSWK RQRFLLTGI NTHSGYGFA YPPCNASAKTTIH GLIACLIHCHGIPHSIASLYRER GTHFTDKEVQQWAHAH

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4508	34876	A	4549	2	1602	NLSPILPQDLWPFTTRVTVHWGK GNDQTFQGLQDTGSELMIPGD PKRHCSPPVKVGSGGQVINGV LAQVRLTVGTVGPRTHPVVIS VPECIIDIILNSWQNPIDSLTG RVKAIMVGKAKWKPFEPPLPIK IVNQKQYRIPGGIAEISATIKDL KDAGVVIPITLPFNSPFWPVKKT DGSRMKVVYCKLNQVVTPI AAVPDV/VVSLLEQINTSPGTW YAAIDLANAIFSIPVHKAHQKQ FAFSWQGHQNTFTVTILLHIH KVGHAQQHSIIKWKWYIHDGA RAGSEGTSKLNNEVPQMPMVT TSAALPSLPRPAPMASWGVLY DQLTEEEKTRAFTDGSARYA GTTQKWTAALQPLSRTSLKG SGEGKSSQWAEQAVHLVVHF SWKDKWPDVRLYIDSWAVAN GLAGWSGTWKKHDKIGDKEI WGRGMWMDLSEWPKPVKIFG SHVSAHQWVISAEEDFNNQVD KMTCSVDITQPLSPATPVITQW AHKQSGHGGRDGGYTWAQQH GLPLTKTGLAMATAECPI

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4509	34877	A	4550	1	1891	MLSSTQNAGGSYQVRVGRALDT QEWKWGEVSPRTLNVDRAL VSVANTHGTDRPAYTLNPQSR DQRSGVITLGYKRPLEREDLFE LKESDSFCTACPIFEKQWRKEV LRNQERQKV KALNKLDEALCP GIILTQSTDSNANLFQKQPHRHT QTSGRWQIIIFCEHSSDFGWNG YGYAVALLVVVFLQTLILQQY QRFNMLTSAKVKTAVNGLIYK KLGWSGKVS WLILHDVGHGIM EGYIAWGGKSDVRITWEKKST EMRTRPAQKMALLLSNVSQRK FSTGEIINLMSATHGLDSKPQSP LVCPSNPNGRISPLARAGLAD HYRVTHLQILKLYAWEPSYKN KIIKIRDQELEFQKSARYLTVFS MLTLTCIPFLTKISLGRLEDFLN TEELLPQSIETNYTGDHAIGFTD ASFSWDKTGMPVLKESIRIRIEQ VLNQLSLFETVDYPGSVAYVSQ QAWIQNCILQENILFGSIMKKEF YEQVLEACALLPDLEQLPKG QTEIGERAVNISGGQHRVSLA RAVYSGADVLLDDPLSAIDV HVGKQLFEKVIGSLGLLKNRTH ILVTHNLTLTPQMNLIVVMKSG RIAQMGIYQELLCKTKNLTNFT KSSVNKKKVGEEESGRGS
4510	34878	A	4551	2	542	LSAKVKTAVNGLIYKKVSLAT LCVYFLLDERIILTAPKVFTSMS LFNILRIPLFELPSVISAVVQTKI SLGRLEDFLNTEELLPQSIETNY TGDHAIGFTDASFSWDKTGMP VL/NRGSEAYVSQQA WIQNCIL QENILFGSIMKKEFYEQVLEAC ALLPDLEQLPKGDTQTEIGERVR
4511	34879	A	4552	1	667	IETNYTGDHAIGFTDASFSWDK TGMPVLKESSVAYVSQQA WIQ NCILQENILFGSIMKKEFYEQVL EACALLPDLEQLPKGDTQTEIGE R/GKETAVNISGGQHRVSLAR AVYSGADVLLDDPLSAIDVH VGKQLFEKVIGSLGLLKNRTSH SVCHYTLLAVPHLLEVQILTGN FIQSLGFNYHEYANNSNAYIVN LDLPFGFQTCVYKLLSPIRCLIC
4512	34880	A	4553	201	336	QQTPGKAVHAPFIADQSLT*EL VSVFPQFQLFPYRR*DSHSGKS
4513	34881	A	4554	3	515	

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4514	34882	A	4555	1	852	MPCTTSGLDKVPTSKKALTRY GYGSLTLD FSGSIIPCKMCLSPS TRIVRPSQPRGTEDPDETGDTEF VNSDESFLLEG TASPSPVVA VSP PRPMLPSAFPPLSEDINPVLPEA TVLASPEVVAKQTHVDSPRKPL STFLFASRPVTKLKS RQTPGGE VDSVTCEEKTDGPWRKTVDYC KLNQVVTPIAALVPDMVSLLV QINTSSDTSYAAIDLAKAFFSIP VYKAHQKQFIFSWQAQQYTFT VLPQGYIISPALCHNLIRR/DLD HFLLPQDITLVHYIDDIRL
4515	34883	B	4556	288	327	
4516	34884	A	4557	51	598	LFGGCHTSGGLAVRVPRMPRG SRSRTSRMAPS\ASRAPLK*ELE PRQAQVAQPPA\AAPP S\AVGSS\ AAAPRQPG/LFMAQMATT AAG VA\VGFC CGGHTLGHG\TGGLS VGGKLI A*ALRRP*HQFNQGSF RGTQAKHSKQQPALPLLWRIKT SFREVVPPEPRVTIQGFCGGFPM RLETV PDL
4517	34885	A	4558	1	10434	MTVIRSGIAYILHLKSYDVNIQT GSNACNQPTH PNGDCSHFCFPV PNFQRVCGCPYGMRLASNHLT CEGDPTNEPPT EQCGLFSFPCK NGRCVPNYL CDGVDDCHDNS DEQLCGTLNNTCSSSAFTCGHG ECIPAHWRCDKRND CVDGSDE HNCPTHAPASCLDTQYTCDNH QCISKNWVCDT DND CGDGSDE KNCILNCTASQFKCASGDKCIG VTNRCDGVFDCSDNSDEAGCP TRPPGMCHSDEFQCQEDG
4518	34886	A	4559	24	849	ATGRCCCGLAPGFPLCWVLYP GGRGSA/CPEPHVLR TGSP LQRE QRTNGRTDLSSL PNLNFDSP RCKHKNQLAITLRKRIRKLATS LFSSTIFRISGTSVIISAPGAGLPL PALFPTRCQPKFSRSIDPTGKAV QTADIRLSARATLWLGGSIEESP VLCSTLRLLLRLPPPLTW TSPN RPTQPCTAQTQTNQSVGIAAPS AIRVIYPESVVLNAVIYLP GDPE VSGLPRAFKRFSVEVRLDCGT FKLLL VYCTHPGDKKVNTCKT GALVAF
4519	34887	C	4560	192	449	
4520	34888	A	4561	1	786	
4521	34889	A	4562	3	14073	

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4522	34890	B	4563	58	1282	
4523	34891	B	4564	1	684	
4524	34892	A	4565	1	1356	MGRKYTLKWEFEEGFTEKKEL KKVTSEGYITPVEIYDYROYCY ALQRPIATTQIDDVRDGHTRRL AKLEKQEQTHSKASRRQEIIKIR AEPKEIETQKTLQKINESRSWFF EKINKIDRLLARLIKKKREKNQI DAIKNDKGDITTNPTIEQTTIRE YYKHLKYANKLENLEEMDKFLH TYILPRLNQEEVESLNRPTGSEI EAIINSLPTKKSPGPDGFTADFY QMLEVLARAIMQEKEIKGIQL GKEEVKLSLFADYMIYVYLENAI ISAQNLLKLI/SNFSKVSGYKINV QKSQAFLYINNRTESQIMSER PFTIASRKIKYLGILTRDVKNL FKENYKPLLNEIKEDTNKWKKI PCSWVGRINIVKMAILPKVIYRF NAIPIKLPMFTFTELEKTTLKFI WNQKRACITKSILSQKNKAGGI MLPEFKLY/YQGSSTQTAWWY
4525	34893	A	4566	1	1102	MANCDINRKDEKGGKEKKDRS KSKSLMDTLKRQLSAKQKPKG KAGKPSGSSADEDTFSSSAPIV FKAVRAQRPIR/STSLRSHHCSP MPWPLRPTNSEETCIKMEPSPP LNGVRKDFHDLQSETACQEQ NSLKSSASQNGDLYLRLDEHVP VVIGLLPDYIYTVPLDEGMC PLEGSSSYCLDSSSTMEVSVVPS QVGGRSFPEDSQADQNLVVA PEIFVDQSMNGLLTGTTGVMLQ SPRVGPHHVPPLSPLPPMQNN QIQRNFSGLTGTEAHMAESMLC HLNFDNFNSAPGVARVYVSVQSS GPMVVTSLTEELKRLAKQGWL WPPLKSVRRCVLARRSLYTKQL NQEETELNLGSSCLLC
4526	34894	A	4567	364	661	PFHFTCFSCKVYFADPGSAARS VPGPSAVCAQCILCTGHCAVC PGLGEHHSSGRTLMTKLHSLK KLKPCYLLC*SKN*KTQGGSPK S*NVNKYLVTLI
4527	34895	A	4568	53	470	CISIIIPGSAKTLSPVLSLSSPY TASFQPTFVRTFSHQTTYLSLGS VPVAQLKCSAGQQRGELLCCR GVWGSWISVSHFTEIATLPAAC LEDGE\DFNLGGILDSSKYL*SIQ KTNTHRIVDGKVVSETNITDVL

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4528	34896	A	4569	1	1635	MGWTCKILFLVAAATGAHFLV QLVQSGAEVKKPGASVKVSK ASGYTFTYCYLHWREPVSFIG RCILLTLLGDCLWGEGAWTQ GDVLQPSDRASFLAMGVNTTG QQVGDLSGDFPNSVGKACKCR EFHTLTPLAHTSSTTHETFPGMS HIALELSQGSSLLQCLEAQTQG QRQELTVSANEQPESRGHGCVL LCETQSEGKSVRAQAQTSCLKGS QKRLGGARTLCTGLSPGQRKQ ERSKIDTLTSQLKELEKQEQTYS KASRRQEITKIRAELEKETQKT LQKINESRSWFFEKIYKIDRPLA RLIKKKREKNQIDAIKNGKGD TTDPTEIQTTLRQYYKHL YANK LENLEGMDKFLDAYTLPRLNQ EEVESLNRPTGPEIEAIIIN/STPT KKSPGPDRFTAIFYQRSDVLA RAIRQKKEIKCIQLGKEEVKLSL FADDMIVYLEIPIISAQNLLKLIS NFSKVSGYKISVOKSQAFLYTN NRQTESQIMSELPFTIASKRIKY LGIQLTKDVKDLFKDNCKPLLN EIKEDTNKWKNIPCS
4529	34897	B	4570	1	429	
4530	34898	A	4571	1	897	MDLNYTLEQMDLTDIYRTFHPT TTEYTFYSTGHGTFSTDDVIG HKMSLDKFKKIEMISNTVSDHS GIKLEINSERNLENHANTWKLN NLLLNECWVKNKMKMEIKKLF ELNDNNDTTYHNLWDRAKVVI RGKCIALNTYIKKSERAQTDNL RIKNKNHMIISIDAEKAFDKIQH PFMIKTLSKISIRGTYLNLIKDIY DKPTANIMLNGEKLKAFTLRTG TRMNQGCPLPSLLFNI/VLEVL ARAIRQEKEIKGIQIGKEEVKVS LFADYVIVYFENPTDSSRKLEL IKEFSSFWIQD
4531	34899	A	4572	1	1461	
4532	34900	A	4573	49	365	
4533	34901	A	4574	45	534	VCHLEPGERCGPSRGCRVGV QTEKMQTAGALFISPALIRCCT RGLIRPVSASFNSPVNSSKQPS YSNFPLQVARREFQTSVVSRDI DTAAKFIGAGSATVGVADSGA GIGAVFGSLIIVYARKLSLKQQL LFYAILGFAALSEGMI GLFCLMV AFLILFAM

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4534	34902	A	4575	98	624	DWYSRSHPKELWEGSKKKSIN HSACSLQAHGGPISTSLNPHSKP RGRVSPPPGKRQOECRAPGRS PELAGPPPANVQETSQKNACAS RLSEPPGEGPEAAHPQPHRGS SSGPCSRGGYRQPLFPGAASG VPASGSV/RSRIPGAPQGVALAR RGPQGSPSPAPRFFPATERQS
4535	34903	B	4576	1	604	
4536	34904	A	4577	3	331	LAPAPSAAWRTGLKALTPSST WMLCASE\HHVSGSGVGDHLA GCRQEKTLPCQRYCVFCRRRR ARSLQAQCGFSLTPALELLPVPF LKLLCPGPPRRRRRICRILPGAGL
4537	34905	A	4578	1	871	
4538	34906	A	4579	3	510	GPPSRVDDFVAAAAAAVAPVV LYACPRHSPIPPWSIRGRVVVT GFGPFGEHTVNANWIAVQELE KLGLGDSVDLHVVEIPVEYQTV QRLIPALWEKHSPQLVVHVG SGMATTVTLEKCGHNKGKYG DNCRFCPGSQCCVEDGPESIDSI IDMDAVCKRVTTLGQCI
4539	34907	A	4580	1	285	MAPGALPALGEEEGPGASGLSA ELGHLAAGSRAFRETSVDSALD TPFPAGTFVRLEFKLRQTE\SGR RKDWKKPKCKVQPERRKQKCL TCVKLEC
4540	34908	B	4581	1	228	
4541	34909	A	4582	1	697	MGLERPVDVDMWLPGALWNS AVVSAPVGEWALAGTGNQGL QDIQGMHCPEEGISQIHGRDHR NAKDSHTGVWCSTLGIISTIIIR PKCRFSIDRSDSDYLPTSSCRD PGGAEPQDRPRVEQLCSVLN RSGPLAKCHWYESPVSYTQVC VSDLCQYGTGNRMLCTMLEAY VQLCALRCALPARVASQPGMQ LRVACPANSYYDSCGPPFPATC ASLNSSAPCTLQCTVSCFCLEGF ALEAG\SSVPHACCGCHLQGRY I/APGPWPSATGMRAPCPTRRC VSLTSASMARATACCAPCWRP TSNSAPCAARCLPAWRASLGCS YVWRVQPTATMTPVGHPSRPP VLA TP RPAPSSAQ
4542	34910	B	4583	1	208	
4543	34911	A	4584	2	230	

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4544	34912	A	4585	106	669	GCGCVLLPGGVGAPGHSPEGP VPPRDARQLRTCGLAGTLHLST SCGHPTGAWRGALGSQWNGH NPVQDHLQEAQPWFLEFDRG* RCFWRMATSFPRYPTWDDY*R LPCCRCLPQCKKPAETTGCLPIS GEKTHGGVGDLLGEAPARLRQ WASQRQPATDLPA*ASRGRPA* GKDTHRACVAGEAAQDA
4545	34913	A	4586	2	597	TPKGGIRLGLAKLGCPTAWINP YGRGMPLAHSVLSGARVLVV DPDLRESLEEILPKLQAENIRCF YLSHTSPTPGVGALGAALDAAP SHPVPADLRAGITWRSPALFIYT SGTTGLPKPAILTHERVLQMSK MLALSGATADDVVVYTEVLPLY HVMGLVVGILGCLDLGTSLAS YGLRVYFILWSVLGPSRRTLCL
4546	34914	A	4587	9	573	EEEEKKKKKKKKKEEEEGEEE GGGMGEKKKKKEEEEGEEGE KEREKERVEKERRKKKEERKEK ERERKKRERKKEKERERKEG EGERERKSTECTSSSYI/IKKLVV KQPQAAPSGEIPPEGIAVLGGDS SMPVIVPEDLPVGQDVEVEDSD INDPDSLILVSSQAGGGGVITAY CNLEHLGSSDPPT
4547	34915	A	4588	1	297	
4548	34916	A	4589	114	752	DGSAAPRATSDSFTYTVCVSEF PVDDFMELGRSIPDTQL/DAVIE SQKANQCAVLIYT/SGTTGIPKG VMLSHDNITWIAGAVTKDFK/P TDKHETVVSYLPLSHI/AAQMM DIWVPIKIGAL/IYFAQADALKV RLSKDLGSDFILLGSPVGLRPST KRLPVL SKLGHTYRRVWVEE SSGPHTISNQNNYRLQGPMMK LKRHFVAQKYKKQIDHMYH
4549	34917	A	4590	1	837	MVTQKLPNAQENLKHAERQAA GCCPGRSHIFQHVGP GASESLR GEGCSTHPEAQGAQERCEQWK KDQHWCLASHTDVTQQWGRH IVQEGGTHRGPSAVLSLRTALD EG/ARGGCSHPITAQLPLQLRHL PRPPAPAR\PSAPPAATSPPTP PPAPAR\SSAPPAATSPPTASSG ACAALPQLPLQLRHLPRPPAP AR\SSAPPAAMSPPARPPAPARP RLRRSTACATALRPGERGSAAA QPGARSETSFCRLG/AAAAVLD PAFISSQALACPVVGVI

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4550	34918	A	4591	3	377	
4551	34919	B	4592	1	1632	
4552	34920	A	4593	1	1224	MDGTNRFYLYVWETERQQDV EHVARCILCYDKCRPDPECPAG TPGPQEVVDVLFVVDSSYGV DADVYRGSLSLADAALEDLEV AEQPGASHRGARVALVTHHTP NFGRGFHLTTYGNRKQMQRH VREASARPLQGTAPPGHALEW TLENVLLAAPRPRKAQVLFIV ASETSSWDREKLWTLSEAKC KGITLFVLALGPGVGTHELAEL AELVSAPSEQHLLRLQGVSEPE VNYAQGFTRAFLNLLKSEQSPG TGAPWVEWGEFTPEGIWACR WTNQYPPPELTEECGGLHRGD TVLQLVTPVNRFMYYAAKENS KRKTKANFHLEVELEDESIFR AYYEGTLYEVSALPLQRSNELL QKWSLFHGSNGRRVSGSHPEV ALQQGGTGLPAVLVWQLWRQ
4553	34921	A	4594	266	556	HKVQQICYRLRLVSQILFSINQT LAERQIVTFTVYPDTERDRETR NLADLKQIKIDLGFSDNPBGY IDILRGLRQSFDLTWARDIMLLL NQLAPN
4554	34922	B	4595	1	735	
4555	34923	A	4596	70	624	PTAMVEEGIAAGGVMDVNTAV QEVLTALIHDLGARGIREAAK ALDKYVYQSQYCGFLQPDQKL ATQGGKGMGVHGVKRSKSM ASVLPGNLRKRRQAHLCVLAS NCDEPMYVKLVLEALCAEHQIN LIKVDDNKKLGEWVGLACKIDR EGKPRKVVGCSVVVKDYGKE SQAQDVIEEYFKCKK
4556	34924	A	4597	145	682	SWRNRTVSNNGSAVSASSVHLCF AECKALCGERILTDGSDVSRPTI AAGGVTDVNTALQEVLTALIH HDGLARIGISRTWPKALDKRQ AHLCLVLASNCDEPMYVKLV EALCAEHQINLIKVDDNQET* EKWVGLCKIDREGKPRE*WL VGS*CSSLRTIGKESQAQDVIEE YFKCKK
4557	34925	A	4598	252	590	RSLDLVWWQLSGGLAGSAKPK PCTPVKQSTVMSFSPHKEQYFL MDGKKK/YDKESKEYSILEKH LNLSAKKKESHLQENSSGPSVS TKLINLFSKRLLCAFLPAQLTPY SFCS

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4558	34926	A	4599	1	1662	
4559	34927	A	4600	4430	4904	LIKGTRCLGRRPSFAYSRNI*A *S*P/EGTSAQLAELLALTALALE LGNGKRINVYTDISKYAYLILHD HAAIWKERAFLTSGGTPIKYHK EIMELLHTVQKPKEVAVLHCQS HQKESSPLEDTTGTAGPLHPYP AGSSPERSSPSSQQLGLDLFRGII
4560	34928	A	4601	1	2630	MEQANHPVRLINVCKDTLKKI VQQETSCPLTHVHYAEAITGRC TAPEDKGS LDQKPPTDDPTGCP WQVPAHVITLTETWVCLTIEGQ EIDFLDGTGVQKPNGQWRLVQ DLIPIKEAVIPLYPVVPNPYTLIS QIPEKAEWFMALDLKDAFFCIS LHSDSQFLFAFEDPTNHTSKITR TVLPQGF RDSPPLFGQALAQDL GHFSSPGTLVFQYVDDLILATSS EASCQATLDLLNFLANQGKV VPNLWGKLP LNTRKSWSYCT QCKNPRRWQSYTAKAIKKQLA EAGPVTAILLLLIFGPCIFNLLIK FVSSRIEAIMLQMVLMQMEPQMS STNNFYQG PLDRCTDPLSGLES SPRCSEAPCLMSQWTGDIEYDL LLPPIPHQTTLCDLQNLKGIFSR YHRK WYGEILALLTPTANVCG HSQVPHACSIYHDPVTWNPQG LLPKSLYGVTKWGDKEHFEWG SQQQRAFYE LK\KKLMSAPALG LPDLTKLFTLHVSDREKKMAV RVLTQTMGPWLG PVA YLSKQL DGVSKSWPPCLRALAATALLA REVDKLT LGQNLNIKAPHAVV TLMNTKGHHWLMNARITRYQS LLCDKPHITIEVCNTLNPTTLLL VSESPVEHNCVEVLDSVYSSRP NLRDHPWTSVDWELYVDGSSF INPQGESVWGIIQGKRPIKLWG KRRKVSARDLAIIGGSVEAPKL
4561	34929	A	4602	1	506	FLALTSRFLFVLLNEETRSHLEK SLCWKVSPHIKMDLLQWIQSK AQSDGSTLQQGSLEFFSCLYEIQ EEEFIQQALSHFQVIVVSNIASK MEH MV\SSFCLKRCRSAQVLHL YGATYSADGEDRARC SAGAHT LLVQLPERTVLLDAYSEHLAAA LCTNP NLIELSLYR
4562	34930	A	4603	3	381	
4563	34931	A	4604	3	483	
4564	34932	A	4605	3	410	

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4565	34933	A	4606	2	249	SADAPMFDMGVNHEKYDNSL NII/SVMKAGPVEKRPAWHPMD TLP*LAPRSLFLCSNASCTTNCL EPLAKVIHDNFGIVEGLMV
4566	34934	A	4607	2	481	LAPLVKEIHDNFGMGEGMTT GHAIATATHKTADGPSGLWRD GRGAHQNIIPASTGAAKAVGK VMPELNGKLTGVAFRVPTANV SVVDLTCCRQKPAKYDDIGKV VRQAPEGPLKGILGYTEHQVVS SDFNSDTHSSTFDAGAGIALND HFATLSPPPH
4567	34935	B	4608	79	278	
4568	34936	A	4609	2	1201	PSTACRNSARACSTVSRIFFCVA SRATSLRTPMGKVKGVNGFG RIGRLVTRAAFNSGKVDIVAIN DPFIDLNYMVYMFQYDSTHGK FHGTVKAENGKLVINGNPITIFQ ER\YPSKINWGADAGAEYVLEST GAFTTMENAGAHLQGGAKRVI ISAPSAID\APMFVMGVNHEKY DNSLKIISNAISCTTNCLAAPLA KVIHDNFGV\VEGLMTTVH\AIT ATQKTV\DGPSGLWALMGPR GFFQEHQSLPFTGGC/ARVVGG GSSPELERGKLTWAWAFRCPCQ LPKRVNGWDL\TCRLIEKPCPK YD*HQGRVVKAGRRKGPLQGA ILGLQLSNPGGSPGLSTSDNPL LPPFDAWGLAFALQRTHFCSKL IFLGIDNGILGYSNQQGWDLHG PPWPTWAFQGS
4569	34937	A	4610	61	226	WRIMPTKKVMITMGRRTQRRM LES/SQQFWPCHLH*KLVPSCQL LGCLVFHFRER
4570	34938	A	4611	153	495	QHAAECKAHAGLPGLPLPARK LASRHGAPRWRQSGVGPGGKV ENYGRRLAPGTRHPQSLSHKP AKKIDVARVTFDLYKLNPDQFI GCLNMKATFYDTYSLSYDLHC CGAKRIMK
4571	34939	A	4612	1	643	
4572	34940	A	4613	286	698	ESDNNLTQGTSI*QGTRHPQSLF PLSPAKKI*CGPVLTF LTCYKLN PQGLSLGCLNIEGRFFMDYVIPF PIDLALLGAKRIMKG\TLHWA LFSMQTTGPRA/VFTSCYLQQL LDATEDGHPPKGKASSLIPTCL KILQ
4573	34941	A	4614	59	294	
4574	34942	A	4615	1	2253	

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4575	34943	A	4616	2	197	LARSGMGFYRRGLLGEVKGRV EGNRMWHVIVRTSPNHRFTFT LKTHPSVVPGSIAFSLPQ/RPWS
4576	34944	A	4617	302	441	
4577	34945	A	4618	944	1257	RLPFSRPSVGPTPQAPRLLCNG WRQLPTTFFTELEKTTLKFIWN QKRALIAKTI/LKPKNKAGGITL PDFKLYYKATVTKTARFLLYK VSQIDNTDLFDPVKIKFE
4578	34946	A	4619	1	1370	MNIDAKILNKILANRIQQHIKKL IHHDQVGFIPGMQGWFNIRKSM NVIQHINRTKDKNHMISIDAEEK AFDKIQQPFMLNTLNKLGIDGM YLKIIIRAIYDKPTANIILNGQKL EAFPSKHGTRQGCPLSPLLFNIV LEVLARAIRQEKEIKGIQLGKEE VKLSLFADDMIYLENPIVSAQN LLKLIGNFSKVSEYKINVQKSQ AFLYTNNRQTESQIMSELPFTIA SIRIKYLGIL*LTRGVKDLFRENY KPLLNKIKEDTNKWKNI PCSWV GRNNIMKMAIL\PKVIYRFNAIP IKLPMTFFTELEK\TTLKFIWNQ KRARIAKSILRQKNKAGGITLP DFKLYYKATVTKGAWFQHHK HTLIKEPLLDVFSFSPNRPDHGK KQDKQPQTKNIANASADSKNT QQMNGFVTGAATSFIPKDRTAS SLCGCTGRRRQSVAKYLRI RPHI NVPSFTYYK
4579	34947	A	4620	2	671	WHQNLALTRASGSFHS/WEEG KGGADMSHEICVANLQVYVRS TDFDRTLMSAEANLAGLFPNE VQHFNPNISWQPIPVHTVPITED RLLKFPLGPCPRYEQLQNETRQ TPEYQNRSIQNAQFLNMVANET GLTNVTLETIWNVYDTLSCEAP SPPWGRKPPLERLWPRPRELTC PLRYTQTHGLLLPPWASPQTV QRLSQLKDFSFLFLFGIHEQVQ KARLQG

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4580	34948	A	4621	1	1923	DSVAFEDVAVNFTQEEWALLG PCQKNLYEDVMQETIRNLDCG HETEFVEYENLRDPMNMPLHT TDGPHKCKICGKGFDPCSSLKS HERTHTGEKLYECKQCGKALS HSSSFRRHMTMHTGDGPHKCK ICGKAFVYPSVFQRHEKHTAE KPYKCKQCGKAYRISSSLRRHE TTHTGEKPYKCKCGKAFIDFYS FQNHKTTHAGEKPYECKECGK AFSCFQYLSQHRRTHTGEKPYE CNTCKKAFSHFGNLKVHERIHS GEKPYECKECGKAWSLTCFLR HERIHMREKPYECQCGKAFT HSRFLQGHERIHTGEKPYECKE CRKAWSLTCLLQHERIHTREK PYEGKQCGKAFTHSRFLQGE RTHAKKLCECLSTVSARKSVD LIASYPFLNLFSTPKTLRNCSY RRHERMHTGEKPYECKQCSKA LPDSSSYIRHERTHTGEKPYTCK QCGKAWSVSSSLRRHETTHSAE KPYECKQCGKTFHHLGFSQIHM KRHTGDRPHKCKICGKGFDPRP LVRYHERISTGEKPHECKQCGK AFDHLGSFQRHMIRHTRDGP KCKICGKGFDCCSLTQSHERTH TGEKKLYECKQCGKALSHSSSF RRHMTMHTGDGPHK\CKICGK
4581	34949	A	4622	1	256	MGKGSFKYAWALYKQKAEE RGVTIDTSLWKFETSKCYVTIK DFIKNIITGTSQQGQTASVAFC ILSSCPASWKNQVSHRLGG
4582	34950	A	4623	173	717	SINAVASTRTIEKFEKEAAEM GKGSFKYAWVLDKLKAERERG ITIDISLWKFETSKYYVTIIDAPG HRDFIKNMITGTSQADCAVLIV AAGVGEFEA\SICQNG\QTREH ALLAYTLGVK\QLICRVNKMD STEPPYSQKRYEEIVKEVSTYIK KIGYNPDTRAFVP\ISGLNGDH MLEPKC
4583	34951	A	4624	3	525	GCPSPGPHRCVAGHGAPGAVC RNVPTAWPGYSRCSPPGPRGV EAVGHQRHRAPETHSTPAADR HRRGLPGS\KSDSAMESPPSPAP QAQPPKVPKPRTVFGGLSGPA TTQRPLSPALGGPGVSRSPSP PRPPPLPTSSEQSSALNTVEMM PNSIYFGLDSRGAQAQDK

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4584	34952	A	4625	2	448	RRAHACARRRRKKEMLGVNVL TSHSSQERMKLTFKKKAVNFA DAAAQGGPLLPA MVNPTMFFH IAVDGEPLGCVSFEVRGLESKK *LLI*SIKLC*QIG\LFADKVPKT AENFHALSTGEKGFGYKGCSCFH RIIPGFTCQSGDFTRPTA
4585	34953	A	4626	1	751	GTRDATAEENRVLLAMVNPTV FFDIAVDGEPLGRVSFEVRGLD TKK*LLI*SIKLC*QIGGSSIFITS D*KNSCLPLIVQQCLLFLRILPL FADKVPKTAGV*FFFKQKIFRA LSTG\EKGFG\YKGFP AFHRIIPG FMCQGW*LSHRHNGTGWQVH LMGRNFEDENFILKAYGVLGS LSMAKCLDPTKIGSPVFPSCA KT\EWL\DGQALWCFGK\VKKG LNIVEAMERF\GSRNGKTS\KKI TIADCGQLE
4586	34954	A	4627	3	615	PECIIGIDILSSGQNPHIGSLTGR VRAIMVGKAKRKPLELPLPRKI LNQKQYRIAGGIEEISATIKDLK DAGVVIPTTSLFDSPWPVQKT DGSWRMTVDYRQINQVATPIA AAIPDVASLLKQINTSPDTW/PI RPPISNGD*GVSGR*ACCLEPLA GPHR*ITSEASRILEQGP AIFCR* LLSF*ETALG LLLGF GGN*TFDY
4587	34955	A	4628	3	354	DSWA\VANGLA\GWS\GTWKK HDWK\NDNEIWGK\SMWIDLS EWSKTVKIFVSHESAHHIT*KSS AEEDFNNQVDRMIHSVDTRPL SPATPVIAQWTHEQSGHGGRD GGYTWAQQHGL

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4588	34956	A	4629	281	1529	VRVLSPEKELKLWKNT HKLL SYPTVGAAVTQLQNL TAMGVI GSHGARGQVVALNRQRQGD LPFTRVTVHWGKG/NMQIFGGL LDTGSELTLPIDPKHHCGPPV KVGAYGGQVINGVLAQVQITV GPQTHPVVISPVPECIIGIDILSS WQNP HIGSLTGRVRAIMVGKA KWKPLELPLPRKIVNQKQYHIL GGTVEISATIKDLKDTEAVTPTT SPFNSPIWPVQKTDGSRMTV DYCKLNQVVTPIAAA VPDVVS LLEQINTSPGTWFEWSPKKAL QQVQAAVQAALPFGPYDPADP MVLEVS VADRD AIWSLWNAAI GESQRRPLGFWSKALLSSADNY SPFERQLASYWALVETERLTV GHQVTLRPELPIMNWVLSDPSS HKVSGAQQRSIIKLK WYIHDW
4589	34957	A	4630	453	719	ARGSKHTGLIAQWAHEQSGHG GRAGGYAWAQHGLPLTKAD LPAMATAECPICQQQRPTLSR YGTIPW/WAWDAPGGRGCWRL QKAGE
4590	34958	C	4631	122	325	
4591	34959	A	4632	1	346	MAGEKVEKPDTEKKPEAKKA DAGGKVQEGTGRYSRSAMYSR KAMYKRKYSAASKIEKKKEK VLATVTKPVGGDKNGGTQVF QIITYSSYTQKVQLPKSTLKQRQ GPCPQ GAL
4592	34960	A	4633	115	905	EAFQTLHFCCGLRQGT KRMA GEKVEKPDTEKKPEAKKVDA GGKVKKGNIAKKPKKGARPH CSRNPVLCSEGFGYRSRSAMY SRKAIYQEGSTFSPKSKVEKK KKEKVLATVTKPVGGDKNGGT RVVKLRKMPRYPTEDVPRKL LSHGKKIPFSQHVRKLRSITP GTILNLTGRHRGKRVVFLKQL AKLAYLLC*LGPLVLRVPLRR THQKFCHLPLSTKIDISNVKIPK HLTDAYFKKKKLRKPRHQEGEI
4593	34961	A	4634	2	350	FVALAAVLCRQCLPRAWVCRR AGQGSGRHYRAAICAELKKPLT IEEVAP/DPVGPHEVRVDVHFC GVNFGDILICRDQYQERPHLPFT PGPVADSRKGLPIRSCPPYNL WHCDFCS

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4594	34962	A	4635	1	556	MGLKLNTHMDQTRGSLSGDTL EGSPSKRAKIIILKRGGRGILGG VG VQERRTGQRPALPCHDLRR AEVVPDHRRGGPRPVGPHEDL WQIPEKVS LQEA AVL PITYGTE SFALEHRARTQPGEIVLV TAAA GATGLAVMWQQISSGQGNIAA AGSDEKCKLAMEKGAQSSVN YSQGLKDSATDQ
4595	34963	A	4636	1	142	
4596	34964	A	4637	2	368	
4597	34965	A	4638	2	504	HKVGHAQHHSFITWKWYTRD WSRAGPEGTGVPYDQLTEEEK TRAWFTDGSARYAGTIRRWTA AALQPLSRTSLKESGEGKSSQW AEVRAVHLVVHFTWKEK*PDV RLYTDSWAVANGLAGWSGTW KKHDWKIDDNEIWGRGMWIDL SEWSKTVKIFVSHESAHHIT
4598	34966	A	4639	182	840	RTAVKGNLPTTPVI/SQWAHEQ SGHGGRD SGYTWAQQHGLLIT KADLAMTTAECLISQQRPRLS LQYSSIPWGNQPATWWQIDYIR PLPSWKGQSQDSQDRSRNQGV KVKVAPLTITPSDTTAKFLLHV PAALHSAGVDVLVPEGGMLPP GGTTTIPLNWKRLRPPGHFGLLI PLSQQAKKRVTVLAGVIDLDC QDEISLLLYNRDAKELYRYTAH
4599	34967	A	4640	3	283	SRVSCSPPLSPPPPLSPPPPLSPP PLLSPPPPPLSPPSPPPVSLPPP PPVFSFPSSCP/PPFPPLLPPLPPP PPLSPPPPPPPWSPSPPI
4600	34968	A	4641	1	531	MGSSHCTQPGMLAAAVGQAVP GTD TGADSVLSASCCHQHAIH CAQAIRAKGHLQAHTELPSAPT QPPSCARQCPKSGDLGGRELY NNHEIRSGKHIGVCISFANNRLF VVSIPKSKTKEQILEEFIKVTGS YWVLGLSDFRKWPV/GQCCQ SFHGRLRATPARRAERRDARSF AL

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4601	34969	A	4642	115	2405	ATAEGSGSSGVKERGAGIRKAE RRRTEASGGGGGRRRRSWRR AGAEGVSEADARGRGKGREG KGGSRGGARAHREARRRVEL DRVCCQRRELPPFYNSSTRAG HREQRARVSRNPIPSDRISPPQP NGEISGNMATEHVNGNGTEEP MDTTSAVIHSENFQTLDDAGLP QKVAEKLDEIYVAGLVAHSDL DERAIEALKEFNEDGALAVLQQ FKDSDLSHVQNKSAFLCGVMK TYRQREKQGTKVADSSKGPDE AKIKALLERTGYTLDVTTGQRK YGGPPPSVYSQQPSVGTGTEIF VGKIPRDLFEDELVPLFEKAGPI WDLRLMMDPLTGLNRGYAFV TFCTKEAAQEAVKLYNNHEIRS GKHIGVCISVANNRLFVGSIPK SKTKEQILEEFSKVTEGLTDVIL YHQPDKKKNRGFCFLEYEDH KTAAQIARRRFN*VGKVQGF GNVGTVEWADPIEDPDPEVMA KVKVLFVRNLANTVTEEILEK AFSQFGKLERVKKLKDYAFIHF DERDGA VKAMEEMNGKDLEG ENIEIVFAKPPDQKRKERKAQR QAAKNQMYDDYYYGPPHMP PPTRGRGRGGGGYGYPPDY GYEDYYDYGYDYHNYRGGY EDPYYGYEDFQVGARGRGGRG ARGAAPSRRGAAPPRGRAGY SQRGGPGSARGVRGARGGAQQ
4602	34970	A	4643	2	369	
4603	34971	A	4644	1	1002	MNAGCGQTHDCAYRQKRPED VNEEGRLEQRNRKRQDEWGPR DKPASSGYKAGTLDVENWNRA GEGLKHAHQKGLKVDSSAFCT CSLIRTVLMPLSPYYSAGQQAE SKNLKESVVPPTASIENKKQER EDKNWPILPPPVAETSVPPPSVA GIETPIQRILRSAAIAGEPSGPCA FPISVRPDSNNPQQFIHEHTPLEF KLLNELKTSVVNIGVQSPFTLG LPESAFGAMRLLPFDVKHVAR TCLSASAYLTWNLNGQEMCTD QVRQNRAAGHGDI AEDMLLGN GP/YFRPGTSNGTKRAWATIP EE GVPVQSFLPFMEGSQEPSAQL ARLREAV
4604	34972	B	4645	1	575	

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4605	34973	A	4646	1	776	VVLMRNLMSTGTFISMLANISML GSLVIIIQYITQEIPDSRVPLVA SWKTYPLFFGTAFSFSIGVDL PLENEMKNARHFPPILTLGMP VTTLDIGMAALGYLRFGD\DTK GSIILSLPICWYLHGLSGEGPSQ SFSERETKAQVIVPRSEVNVPRR PVSEHSGRGEQLCGLSCRLYQS VKLLYIAGILCTYALQFYVPAEI IIPFAISRVSTRWALPLDLSIRLV MVCLTSAPMTRSTPFCKYSTRG RRRWLEIPV
4606	34974	A	4647	1	1294	MGKDFMSKTPKAMATKTKIDK WDLIKRKSFCTAKETIIVNRQP TEWEKIFATYSSHKEISRIYTE LKQIYKKKTNNPINKWAKDMN RHFSKEDIYASKKHMKKCSSSL AIREMQIKTTMRYHLTPVRMEII KKSNNRQPIVGPCDNSVILLY KILANRIQQHIKKLIHHDQVGFI PGMQGWENTCKSINVIQHINRT KDKNHMIIISIDAEKAFDKIQPF MLKTLNKLGDGMYLKIIAIYD RPTANIILNGQKLEAFPLKTGTR QGCPLSPLLFNIVLEVLAIRQ EKEIKGSQLGKEEVNLSLFADN MIVYLENPIISAQNLPLKINNFS KVSVCINVQKPQAFLYTNNR QTESQIMSELPFTIASKRIKYLVI QLTRDVKDLFKENYKPLLNE/I K/EDTNKWKNIPCSWVGRINIV KMAILSK
4607	34975	A	4648	2	711	WNRRRPCIAKTIL/SQKNKAGGI TLPDFKVYCKSTVTKTAWYWY QNRHIDRWSRTETSEITPHIYNH QIVDKPHKNKQWGKDLLFSKW CWENWVAICRKLKLNFLTRY TKINSRWIKDLHEKLTIKTLEE NLGNTIQDIGIGKDFMTKMPKA IATKAKIDKWDLIKLSFCTAK ETIIRVNKQPTWENISAIYPSD RSLISRIYKEALKNIYKRLDAVA HTCNPITLKGQGRWIT
4608	34976	A	4649	1	576	
4609	34977	A	4650	1	771	

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4610	34978	A	4651	1	887	FPEDSEPISSHGNYTKQYPVFV GHKPGRNTTQRHRLDIQMIMIM NGTLYIAARDHIYTVDIDTSHT EIYCSKKTAWELDRPMVATCR MKGKHKDECHNFIKVLKKN DDALFVCGTNAFNPSCRNYKM DTLEPFGDEFSGMARCPYDAK HANVALFADGKLYSATVTDLF AIDAVIYRSLGESPTLRTVKHDS KWLKEPYFVQAVDYGDIYFF FREIAVEYNTMGKLLGLHHELL RRTQDYGHKAGCPESCLLSVRR CPPPQSKAHRESVEELIKGCR HAGFCACGHITT
4611	34979	A	4652	1	2890	MVLLKVDPGLWGSSLRVLLKA DPPYGTQAHAEHRHGRALAGGL GVGEQSQSLDLLRMSHTYGA FLPRAAVSSWCASVRIRKIKKSP LLDGAPLLYEPDTWLKWS WTLVFTHPFSALHSA DTGSLTSPDGKLYSATVTDLF AIDAVIYRSLGESPTLRTVKHDS KWLKEPYFVQAVDYGDIYFF FREIAVEYNTMGKVVFPRVAQ VCKNDMGGSQRVLEKQWTSFL KARLNCVPGDSHFYFNI
4612	34980	A	4653	1	480	MEGVEEKEKVPVAVPETLKKKQ GNFAELKIKPKMAFVLRIRGVS GVSPKVRKVLQLRLHQIFSGT FVKLN/KASVNMLRIVEPYIAW GYPNLKS VNELIYKRGYKINK KRIALTDNTLIVPSLGKYGILCM EDLIHEIYTVGKHFKEANNLLW PFKLSSP
4613	34981	A	4654	3	279	
4614	34982	B	4655	119	177	
4615	34983	A	4656	157	359	HQRCRK**TKLEG*TCRKIEVN TDYIKP*E*EFWMIYYISYLT CSSICNENILQLENREKSNT

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4616	34984	A	4657	65	900	GLAFPPILQKESPHPCWLWIFTSP VALSTSRPPCVISSAALCPRRHG FLPPRLAPLAAAFCPRRPCFLP LPPRLFAPAPVDFCPRRCGFLPL PPRVFAVSCPRRRGLLPLLFAP SAAAFCGFLAPSPWLFAAFGTR CRGFLGLLPAAAAFFPRRLRF FLPRLFSPAAAVTFCHPCFLPPP PRLSVPAASFCRRGFQQEIRTV EIRGSGTRVGLQHQTGHLPRGP SSLPAELHA*ARVSPLEASPPSC TR/WMQQPEDLGPALTGLGRICG VGACWEL
4617	34985	A	4658	927	1157	ARRSTAPVDCK*LQP*AQAAL WVLVWDHEAARQPEGVVQPA PGLWPSSRRWRKFQAPGSSGV CHPGALQACPEELS
4618	34986	A	4659	1	563	MKLVAVFDKQDLHHGGDDISA SSMHTQSPERFTSASELGTNNV SAFSVYQAASEIEVTSSVLHAS SQKGLSSQHLGFGAPQAGGGSF RHLAPQRKEVLEEYFKYDPEH KLIFRFVRTLFKAMRLTAEFAIE ITHGGRDVERATGLVNKIHRQG CGDSFCNIGGNAKPYVCCGKE YVSSSKHQNGIAI
4619	34987	A	4660	1	681	MGKYAEALRSQQKAVLMSVR VMGIEHPNTIQENMHLALHCFT SRQLSLALSLQGAHYLM/LLV LGE/DHPEVA/LLDNIRRVLHRV MEYDLSLCFLDNALAVSTKYQ GPKALKVALGHHLITSVYESKA EFARSALQHQKEGLAAH/TSLGE DQEKTKESSEYLKCLTQLAVAL RRAMHEIYRNGSSNNIPPLNFT APSMASVLEQFKGINGILFIPLS QKDLESLKAEVAQ
4620	34988	A	4661	2	443	VWQSGGDSITSKTNITCVNCY LYTCIDSSFNQYHSILIVRARQD IWL PVALHRPWESSPFIHVINNI LQKILKRSTQFIFTLIAIIMGLIA VTVIAATAGVALRQSIQTVHFV DKWQKNSTRMWN/QRIDQKL ANQINDLRQTVIW
4621	34989	A	4662	2	377	FAFTWTDPDTHQAQQITWALL PQGFADSPHYFSQAQISSSSITY LGIILHENTRALPADHV*LISQT PISSTKQQLSFLGMVRYFCLWI PSFTILTKPLY*FTKANLADPTD PKSFPHSSFRSL

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4622	34990	A	4663	1	1095	MAKAVLSKKNKTGSTLLPDFKI YYKDIVTEEPGIETLRHTSSTKF SKGLPSRESFSEKQNKTTTHLH PGEINSFIAHTKPAWRSHTDA HEIWCRSDQVNSPGRSIPCPA LCSMRKIHLRPLVLRPASPRNIS PILNPLHLIAALLPNKPPFRPPL VSPDLNPQVKDISTPSWATDHV HLTVSLKPYHPYPAQCQYPIQ HALKGLKPVITRLLQHGLLKPI NSPYNHILPVLKPKDPYRLVV QDLRLINHIVLLPIHPMVPNPYT LLSSIPASTTHYSVLDLKHAFFT IPLHPSSQPLFAFTWTDPDTHQA QQIT*AVQPQSFTDSPHYLNQA QISSSVTYLGIILIKAHVLSLPV
4623	34991	A	4664	655	2417	KKRESMNIDAKILNKILANRIQ QHIKKLIHHDQVGFIQGRQWF NICKSINVIQHINRAKDKNHMII SIDAEKAFDKIQQLFMLKTLNK LGIDGTYFKIIRAIYDKPTANIIL NGKKLEAFPLKTGTRQGCLSP LLFNIVLEVLAIRQEKEIKGI QLGKEEVKLSLFADDMIVYLEN PIVSAQNLLKLISNFSKVSGYKI NVQKSQAFLYTNNRQTESQIMS ELPFTIASKRIKYLGIQLTRDVK DLFKENYKPLLKEIKEDANKW KNIPCSWVGRINIVKMAILPKVI YRFNAIPIKLPMTFFTELEKTTL KFIWNQKRAHITKAILSQKNKA RGITLPDFKLYYKATVTKTAW YWYQNRDIDQWNRTQPSEITP HIYNYLIFDKPKDNKQWGKGS LFNKWCWENWLAICRKLKLDP FLTPYTKINSRWIKDLNVRPKT TKTLEENLGITIQDIGMGMDFM SKTPKAMATKDKIDKWDLIKL KSFCTAKETTIRVNRQPTKWEK VFSQPTHLTG*YPESTMNSNKF TRKKQTTPSKSGRRINEQTLLK RGHLCSQKTHEKMLTITGHQR NANQNHNEIPSHTC

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4624	34992	A	4665	1	234	MQNQEKFGELISEWAPYGRPRP QIAVGDHHISVYDGEVNWRMS SLQASAAGKDYANRGTEWGEE PSQMLRHLLSGEMCVSRNRG QPLANSERRSEALSPVTPKKLIP ADGHKSDPGRTWMKLETILSK LTQEQTTHHMFSLISG*FAEN DGFQLHPCPS\GSLLWPSAGISF FGVTGLRASDLLSLLARGCPRF LDTHISPLSSS
4625	34993	B	4666	1	2553	
4626	34994	A	4667	33	272	
4627	34995	A	4668	1	3045	
4628	34996	A	4669	1	334	
4629	34997	A	4670	159	245	FPIVASPWLLC*LMSFAGTWVK LETILSKLSHGQKTKHRMFSLI DTVVGSDDFLLRVPGCCASS LNAAHTSVNIKLELT
4630	34998	A	4671	122	359	TANLKNRKF*PIHLTKG*YPE STKNVNFTRKKQTPSKSGQK I*TNTSQKKTFFMQPTGT*KNAH HHWSSEKCKSKP
4631	34999	A	4672	2	66	RLVYADTCFSTIKLKAEDASTS ENMRCLVFCACDSLRLMIVSSF IRVPTKDMYSSFFMAA*YLLQY HQVKSRRCFYE
4632	35000	A	4673	519	899	SALVCHTCSNWQVHLGDSVFY RSEEQPLEPLPFSYLSSLFPLGLHP DPVSSGSQQPS*MPHTDASVTS SHGLGGLAGRNSCIYPCCAPAL CADYLWGSPDLFLLLSFQHKG NVGVGLAHSPQFQQGN
4633	35001	A	4674	1	278	
4634	35002	A	4675	158	592	GYYWRPSFQSLRENNECQRKS NSVNAGCLNCDHCVLGIYQQH *QNYFSFDIHYFLSETGRKVSSS I/AYFTIGETEALSGKVVPYWQQ AAGQGCTLHLLLPQTRLFPQKG RRQPGLLREF
4635	35003	A	4676	302	721	
4636	35004	B	4677	1	871	
4637	35005	B	4678	1	559	

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4638	35006	A	4679	3	2386	RVATMAPHRPAPALLCALSAL CALS LPVRAATASRGASQAGAP QGRVPEARPNM VVEHPEFLK AGKEPGLQIWRVEKFDLVPVPT NLYGDDFTGDAYVILKTVQLRN GNLQYDLHYWLGNECSQDESG AAAIFTVQLDDYLN GRAVQHR EVQGFELAP\FLGYFKSG\LK\Y KKGGVASGFKHV\VPNEVVVQ RLFQ\VKGRRVVRATEVPVSWE SFNNG\DCFIL\DLGN\NI\HQC GS\NSNRYERLKA TQVS\KGIRY NERSGRA\RVHVSEEGTEPEA\ M LQVLGPR\VALPAGTEDTAKED AA\NRKLAKLYKVSNGAGTM\ YVSLWAD\ENEFTQGAILKSED CFILDHGKDGKIFVWKIGKHAN TEERKAALKTASGFHSPRW DY PKQIQVSVPFLEGG\ETPLFKQV FKNWRDPDQTDGLGLSYLSSH ANVERVPFDAATLHTSTAMAA QHGMDDDG TGQKQIWRIEGSN KVPVDPATYGGFYGGDSYIILY NYRHGGRQGQIIYNWQGAQST QDEVAASAILTAQLDEELGGTP VQSRVVQGKEPAHLMSLFGGK PMIYKGGTSREGGQTAPASTR LFQVRANSAGATRAVEVLPKA GALNSNDAFVLKTPSAAYLWV GTGASEAEKTGAQELLRLRA QPVQVAEGSEPDGFWEALGGK AA YRTSPRLKDKKMDAHPRL
4639	35007	A	4680	1894	2161	MFGLPNARAATSTAPFASHLC LCFRJLLLLLGPINLANPRNHLV LHQKFSILGRHFSLAATEEPCISL ALAPSKRWECN SSS*RYENN
4640	35008	A	4681	1	1803	
4641	35009	A	4682	1	501	MTFQCVVNTHYLTYPRPQRFL YLVVVRPSCASWIMFVLIDRGY VFSYFPQSYGGFGSRJLSKPIEV QVGGRSVVAQMWSNCKGQYS DLASLGCISRYSAGSVYYPSY HHQH/NPVQVQKLQKELQRYL TR/KIGFEAVMRIRCTKAKPTRH RHYGELEISITIIRAIGK
4642	35010	A	4683	350	623	

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4643	35011	A	4684	1	3252	PPGPERSRLGLGVSLHQRSCPK CIAVFTRVSEPRIQFPASRILPSS NTSKDFDPVSGQSNYGGSQGS GQTLNRPPVASNPVTPSLHSGP APRMPLPASQNPATTPMPSSSF LPEANLPPPLNWQYNYPSTASQ TNHCPRASSQPTVSGNTSLTTN HQYVSSGYPSLQNSFIKSGPSVP PLVNPPLPTTFQPGAPHGPPAG GPPPVRALTPLTSSYRDVPQPLF NSAVNQEGITSNTNNGSMVVH SSYDEIEGGG
4644	35012	B	4685	51	236	
4645	35013	A	4686	1004	1405	
4646	35014	A	4687	1	771	
4647	35015	A	4688	1	405	SENVDDVSVMG/TPANKALL DTTGFWHD/DFNNATPN DICVA IRSE/AADAGIAQAIMQGLEEA/ LKQQA/LDRNLNVMFMFSDNVT LE/DEIQLK/TRAREKGLLV/MG PDCGTSMIAGTPLAFA/NVMPE GNIGVIGASGTGFRR
4648	35016	B	4689	1	1656	
4649	35017	A	4690	1657	2259	LPQPQPATPWPSAPTFRFASPAA AMATLWSGTCRIRLWSGSSRA TRTAPAALIFPITALGSGQGAW TTRCAAGTCGRAASCSSMTSA/ AQIFSPCHCPNQDWLAVGMES NVEILHVKGPEKYQLHLHESCV LSLKFAPCGRWFVSTGKDNL NAWRTPYGASIFQSKESSVLS CDISRNNKYIVTGSGDKKATVY EVVY

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4650	35018	A	4691	62	1371	QNGSTISVMLRSAMTTTMAAD LITAI/MGQRKQHIDTGFWHDD FNNATPNDICVAIRSEAADAGI AQAIMQQLEEALKQLAQSGS SQALTQVRRWDSACQKLPDAN LALISVAGEYAAELANQALDR NLNVMMFSDNVTLEDEIQLKT RAREKGLLVMGPDCGTSMIAG TPLAFANVMPEGNIGVIGASGT GIQELCSQIALAGEGITHAIGLG GRDLSREVGGISALTALEMLSA DEKSEVLAFVSKPPAEAVRLKI VNAMEKATGKPTVALFLGYTPA VARDEN/VWFGSSLDEAISLAG CFSVRARSPLTRIDGMMILGMF GGCFAASLWANNVKLRMPRSR IRIMQAIIGGIIAGFGARLAMGC NLAAFFTGIPQFSLHAWFFANP LLIGQTLEDPHEYIDYLDKEFPL YQLVEC VVSLNYSYHWECTEI
4651	35019	A	4692	1	1125	MEAEVDKLELMFQKAESDL DY IQYRLEYEIKTNHPDSASEKNPV TLLKELSVIKSQYQTL YARFKP VAVEQKETKSRICAGMTKTMN VIQKLQKQTDLDLSPLTKEEKT AAEQFKSHSFGMWPCCLKYRQ NKKKKKKLSQNRSTTWKLN NL LLNDYWIQNEMKAEIKMFFET NENKDTTYQNLWDTFKAVCRG KFIALNAHKRKQERSKIDTLAL QLKELEEQEQT HSKASRRQEIT KIRAE LKEIETQKNLQKINESRS CFFEKINKMDRLLARLIKKKRE KNQIDA IKNDKGGITNDPTEIQT TIREYYKHL YANKLENLEEMD KFLDTYNLPRLNQEEVESLNRPI TGSEI EARINSLPTKKSPGPDGF
4652	35020	A	4693	2	421	GRVGGRVVGKIRT*LN*IETKKY KR*NETKSWFFEKIKMDRPLAR LTKKR I EIQTSLRNETGNIITD TTEIHKIIQG*SSSSSSSSSSSSSS SSVFSSSSSSSSSSSSSDTFKRPI GIKIEMVF*KLPTKKSRISL

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4653	35021	A	4694	1	654	MEYYAAIKNNTFMSFAATWM KLEAIIILSKLTKEQKTKRHMFSL VSTLELGALTALVRCGRWRRQ CDDEAMACVTQGRPLARLTKK RREKIQITSLRNETGDITDTTEI QKIIQGYDEHTYAHKVENLEG MDKLLEKYNPPRLNQEELGTL NRPITSYEMEMIIKKL/PNEKSP GPDGFTAIFYQTFKEELVPILLA LFHKTEKEGILPNSFYEASITL
4654	35022	A	4695	1	786	MPPSLAYKNRPPQQADTQVA/T MSRGVHWRRKKMQAAGPREDV KRSTQAEHTDRHQHTSR/HQL LLMRIFEMGWKKPSPFQEEIPI ALSGRDILARAKNGTGKSSAHD IPLLKRLDLKKDTIQTIVIVPTG GPALQVSQICIQVSKHMGGVK VVMTTGGTNSGDDVLRDDTV HNVIAAPGRILNLIKKGVAKLE ETYL RHIGRPGHFGHFGLA INLI TYGDHFNKLGIEEQLGKEIKPIP SNIDKSLHVAEFHSKAVENEKP
4655	35023	B	4696	1	501	
4656	35024	A	4697	2	573	YSACFFLFSIAMGILLTVPPSFWI PTSFS AFLGFFSSFSLLVLHQPD FSFVLGLWRIISLLVLKIVEGSS NQGMQMASRSWEWPSSSRKM ATSVRTLPEP/GPSGCRAPSAPPF RKEAGADPSGCPGGRQVPLVAI GRGGALEPQRWELRAPGSAGR LPREGGRTFPGAQSPAGAQSPA GKQSPPGAQSPLH
4657	35025	A	4698	2	346	PPINISVPHC*PFGG/EPLIILIPAP ERSSHVLSQSPVRTHSSAVHQS VGASLNC GDKQPPNFGSKIFF LIYLHLMTGQVRGSSVLCHPNT GIQKEGGTVNEIPIAIEKRKKHA
4658	35026	B	4699	1	468	
4659	35027	A	4700	2	284	ETGEFTQLKELNIQNCWTL LL PELG NLYLTGQKKVCKVENSP WVTPIAGQFQLDVSCVSEC VCS ETYEYLYGQHMQ/ANP/EP PKH NNHKS GKD
4660	35028	A	4701	5	189	
4661	35029	A	4702	38	190	

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4662	35030	A	4703	2	882	WPSVSSG/PSSAVSFSSFDPGVA SCTSSSASGIQRPMASEVPCASG IPIKKIGHRGVDSSGETTYRKT SSALKCAIQLCITHTVGSLDPTP ERHVLIEPLIELSSSGADGSLH VSIHDEFIIKTVQHKQAEFLQKL IPGYHIDLNQNSWTLLPKFYGL CCVKAGGKNTQIAVMKNLLLR LNSEGERILLCIGITDILQSYRFV KKLEHSWKALVCDGDTVSVHR PGFYTERFQCFMCNTAFKKIPA RTLTPNAGKDVEQQELSSLLM GMRSGTATVEDSLVVS YKTKH
4663	35031	A	4704	2	410	
4664	35032	A	4705	2	728	
4665	35033	A	4706	1	1208	MKMEKVNTSWLLPSSISVLIR RGAGSMVLLLQSQRYIFEYDS SDRLAVTMPVARHSMSTHTS IGYIRNIYNPPESNASVIFDYS DGRILKTSFLGTGRQVFYKYGK LSKLSEIVYDSTAVTFGYDETT GVLKMNVLQSGGFSC TIRYRKI GPLVDKQIYRFSEEGMVNARFD YTYHDNSFRIASIKPVISETPLPV DLRYDEISGKVEHFIIITTAEM TLSKHFDTHGRIKEVLA/YEMF RSLMYWMTVQYDSMGRVIKR ELKLGPYANTTKYTYDYDGDG QLQSVACNDRPTWRYSYELNG NLHLLNPGNSVRLMPLRYDLR DRITRLGDVQY/KIDDDGYLCQ RGSDIFEYNFNGAPT KLSQAS GILQSLQGLHEVHRNPACSDFA
4666	35034	A	4707	1	663	MMLLLLALLGAGLLGASLLTS WHAPARNKIPRAQKWREEPDL DPKPILELPLAELAQQLRTEELS LESILCSYLKQALKVHQEVNCL MDFLGEC EELQALKK LKKSE RGLLYGVPM SLKDTYDSMFLE KPATKDG VIMKVLKAQGAIPFV KTNIPLTLRLSLKRASWALNAA TPIYGQMLSPLNLKKTCGGSS/G GDHGGWPHGPRGEPGAVPCK

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
4667	35035	A	4708	2	624	SDARLHKDDTDICFSKTLNSCK VPQIRYASVERLLERLTDLRFLS IDFLNTFLHTYRIFTTAAVVLGK LSDIYKRPFSTIPVRRARKLSLT SPLNSKIGALDLTSSSPTTTTQ SPAASPPHTGQIPLDLRGLSS PEQSPGTQPEVSGSSPHSTAQSK IWSLVWKQYWLMAPSHALKT CHAARLARTFVTSSSATKVHCA ISLK
4668	35036	A	4709	1	195	
4669	35037	A	4710	1	1845	MAEAEPGRPGERGGGGAGRAG GRPGGGGMAEPSGAETRPPIR VTVKTPKDKEEIVICDRASVKE FKEEISRRFKAQQDQLVLILSGK ILKDGDTLNQHGIKDGLTVHLV IKTPQKAQDPAAATASSPSTPDP ASAPSTTPASPTTPTQPSTSDSA SSDAGSGSRSSGGGSPSGTGE GSPSATASILSGFGGILGLGSLG LGSANFMELQQQMQRQLMSNP EMLLQIMENPLVQDMMSNPDL MRHMIIAKPQMQLMERNPEIS HMLNNPELMRQTMELARNPAV MQEMMRNQDRALSNLESIPGG YNALRRMYTDIQEPMFSAARE QFGNNPFSSLAGNSDSSSSQPLR TENREPLRNP/WSPSPPTSQAPG SGGEGTGGSGTSQPAGSGMFNS PEMQALLQQISENPQLMQNVIS APYMRSMMQTLAQNPFAAQ MMVNVPLFAGNPQLQEQLRLQ LPVFLQQMQNPESLSILTNPRA MQALLQIQQLQTLQTEAPGL VPSLVSGMSRTPAPSAGSNAG STPEAPTSSPATPATSSPTGASST QQQLMQQMIQLLAGSGNSQVQ TSEVRFQQLEQLNSMGFINRE ANLQALATGGDINAAIERLLGS
4670	35038	C	4711	59	464	

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4671	35039	A	4712	1	1902	MAEAEPGRPGERGGGGAGRAG GRPGGGGGMAEPSGAETRPPIR VTVKTPKDKEEIVICDRASVKE FKEEISRRFKAQQDQLVLILSGK ILKDGDTLNQHGKIDGLTVHLV IKTPQKAQDPAAATASSPSTPDP ASAPSTTPASPTTPTQPSTSDSA SSDAGSGSRRSSGGGPPSGTGE GSPSATA SILSGFGGILGLGSLG LGSANFMELQQMQRQLMSNP EMLLQIMENPLVQDMMSNPDL MRHMIIAKPQMQLMERNPEIS HMLNNPELMRQTMELARNPAV MQEMMRNQDRALSNLESIPGG YNALRRMYTDIQEPMFSAARE QFGNNPFSSLAGNSDSSSSQPLR TENREPLPNPWSPSPPTSQAPGS GGEGTGGSGTSQVHPTVLNPF INAASLRSGMFNSPEMQALLQQ ISENPQLMQNVISAPYMRSMM QTLAQNPDFAAQMMVNVPFLFA G\NPQLQEQLRLQLPVFLQQMQ NPESLSILTNPRAQALLQIQQ GLQTLQTEAPGLVPSLVSFMS RTPAPSAGSNAGVYPPRPPLPHP ATPSHIFSNRG/SPAPQQQLMQQ MI\QLLAGSGNSQVQTPEVRFQ Q\QLEQLNSMGFINREANLQALI ATGGDINAAIERLLGSQLS
4672	35040	B	4713	309	527	

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4673	35041	A	4714	1111	2506	KKDQRETRNQKGLGFLRDRPQ WVSGKMKQECLQ/HWNAMAI NNHRAVAIFPKRRHGREDGLLS NLPTFGSYAPLRRVSNEFIASAV QRILLERRALPHGNCKLGGLTP QFMNRKNALVLEVLARAIQE KEJGIGQLGKEEVKLSLFADDM IVYLENPIVSAQNLLKLISNFSK VSGYKINVQKSQAFLYTNNRQ TESQIMSELPFTIASKRIKYLGIQ LTRDVKDLFKENYKPLLNEIKE DTNKWKNIPCSWVGRINIVKM AILPKVIYRFNAIPIKLPMTFFTE LEKTTLKFIWNQKRARIASILS QKNKAGGITLPDFKLHYKATV TKTAWYWFQNTDIDQWNRTEP SEIMPHIYNYLIFDNPEKNKQW GTDFLFNKWCWENWLAICRKL KLDPFLTPYTKIKSRWIKDINVR PKTIKALEENLGNTIQDIGMGK DFMSETPKAMTTKV KIDK WDL IKLKSF
4674	35042	A	4715	3	372	SVGVALRPWKRE/RAASERRSS SGGGGGGGGGGGGGGGGGSGS GQ/HAPAAPAGGIEAVNMAAS YHISNLLGVLAALAVTQALP PPSAVAGSFSAPKSPAHRSA GLPIPAEPLSSPLLQPPPP
4675	35043	A	4716	1	1008	
4676	35044	A	4717	1	2619	
4677	35045	A	4718	449	801	VLLSSMSRRKCQSLYVDLLM KKETE*SMEKEKLTMHPLSCTH I*PRPQAPEADKQMRR*TEEQN CRMMWQKKEKEHLNAKRSLA GSGWRDQPLDGKAPGEDHLP IPSPFQLPIHPI
4678	35046	A	4719	1	1255	
4679	35047	A	4720	2	843	CLHGFYRIRDSELQKIHRAAV KGDAAGVERCLARRSGDL DAL NK/TAQIAGAQPREEACTVILLE HGTNP NLKD IYRNTALHYAVY SESTSLAEKLFHFGANIEALDK VLSISFLSKILMSSSLKTCGRDAE DYTISHHLTKIQQILERKKIL KKEKRGKASESEFLNSLGGPTL DKKIRNVEISDES AVSILHEL CV DSL PALDDEVLSVATKCVPEKV SEPLCRPSHEKGNRIVNGKGE GSEECLCPAAHRLRCGERLYLPP RLGCERLCLATTPSEK
4680	35048	A	4721	295	1050	

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4681	35049	B	4722	306	554	
4682	35050	A	4723	2	7973	
4683	35051	A	4724	2	316	
4684	35052	A	4725	81	228	DPPLCLGLLLHHRASIVQKRIIYF QDEGSLTKKLCEQGKTLKHSQ QMFFK
4685	35053	A	4726	1	1043	MELEWKVNVKVNSQDTNHHG SLQLARGEAAAVKFGMRMSKKQ RDSLYAEVQKHQQRLQEQRQQ QSGEAEALARVYSSSISNGLSN LNNETSGTYANGHVIDLPKSEG YYNVDSGQSPDQSGLDMTGI KQIKQEPIYDLTSPVNLFTY\SSF NNIGQLAPGITMTEIEIVAAEF PLIYKQSFLTLVLSFGGGGSVIC GPTFAKVSSRRFIHHGDKIQPS INALGWTFFMEETPQIFKCRNT HGKELEHDLPEHSSGQGSTRRK SSCLRRDNNPMLLSGGRFYEKI HNFITGTFDVRKMEHAEGKTS LVHVGFAQIKMPSSLKQEASNG LIKLEEASGARMKTGHIK
4686	35054	A	4727	467	584	
4687	35055	A	4728	1	1794	
4688	35056	A	4729	110	1797	PSQQEPGSGTSCLYRCWTAQTL PSVTMKLWVSALLMAWFGVLS CVQAEFFTSIGHMTDLIYAEKE LVQSLKEYILVEEAKLSKIKSW ANKMEALTSKSAADAEGYLAH PVNAYKLVKRLNTDWPALDL VLQDSAAGFIANLSVQRQFFPT DEDEIGAALKALMRLQDITYRLD PGTISRGEPLPGTKYQAMLSVDD CFGMGRSAYNEGDIYHTVLW MEQVLKQLDAGEEATTTKSQV LDYLSYAVFQLGDLHRALELTR R\LLSLDPSHERAGGN/LCRYFE QLLEEEREKTLTNQTEA\ELTTP EGIYERPVDYLPERDVYESLCR GEGVKLT\PRRQKRLFCRYHHG NRAPQLLIAPFKEEDEWDSPHI VRYVDVMSDEEIERIKEIAKPK LARATVRDPKTGVLTVASYRV SKSSWLEEDDPVVARVNRRM QHITGLTVKTAELLQVANYGV GGQYEPHFDFSRNDERDTFKHL GTGNRVATFLNYMSDVEAGGA TVFPDLGAAIWPKKGTAVFWY NLLRSGEGDYRTRHAACPVLV GCKWVSNKWFHERGQEFRLPC
4689	35057	B	4730	1	2433	

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4690	35058	A	4731	425	1079	PMGTSFLYECANFQSVSLGDPQ EPSCLCGGQPQGAAGSSGSED ALLCLWDLQARKWKFEMSYTS GNIRGSSFCQFKSSFLVYFKALL KFRELFAQFKSFMGEKKLSLAP PMSDSSGDGIIRKIDYASCKRSG SSIRALPKTYQQP/EVLNDTWV SFPSWSEDSTFVSSKKTPEEQL HRCEDERFEEMKTAGFASFGER SKTGVPNLRVTDWYRLVAC
4691	35059	A	4732	3	425	GASSEAEAGASEGPAGPGGWG APGSQGAQEGGDLQEAESQE GGDPRKPRSPRKVERHRKAGA PGRDLGRPSLTVLL\NHCVLQR LRKIYHSSIKPLEQSYKYNELRQ HEITGQRCPCCEEPKPQHqERA LFVVVSENrNI
4692	35060	B	4733	1	1056	
4693	35061	A	4734	171	511	LLSVRHVVRNTQETANDVQVW /LDREGGSKI\NTGVCFLDHMLD QIATAVSRME\INVKGDLYIDD HHTV\EDTGL\ALGEALKIAPGD KPGICRFGFVLPMDECLACAL DISGGPH
4694	35062	A	4735	563	763	
4695	35063	A	4736	365	1644	RTSQMSSSAWRQQNRARPSSAI LPSSLSLGHPALPQFSQRMPAT ASQLPGMVGVLLEGYGQTAASP GSVSSCSPACSSCCLGCWWPSS WPSCRLHPHLGRPIAHCLPE/VL TTTTTTPTITTSQAAGTPKGQQE SGVSPSPQSTCGLLSGPRGFFS SPNYDPYPNTHCVWHIQVAT DHAIQLKIEALSIESVASCLFDR LELSPEPEGPLLRVCGRVPPPTL NTNASHLLVVFVSDSSVEGFGF HAWYQAMAPGRGSCAHDEFr CDQLICLLPDSVCDGFANCADG SDETNCsAKFSGCGGNLTGLQG TFSTPSYLQQYPHQLLCTWHIS VPAGHSIELQFHNFsLEAQDEC KFDYVEVYETSSSGAFsLLGRF CGAEPPPHLVSSHHELAVLFRT DHGISSGGFSATYLAFNATERL CLVESTSS
4696	35064	A	4737	1	154	

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4697	35065	A	4738	1	700	GSRPQFPFGHTRVRASGWRPCSL KPQLLGPVHPVSPYLLFLSSSDC AMGLIDGEWQLVLNVWGKVE ADIPGHGQEVLRIRLFKGH PETLE KFDKFKHLKSEDEMKASEDLK KHGATVLTALGGILKKKGHHE AENKPRGTVSNATKHKIPVKVT WRSSPECIIQVLQSKHPGDFGA \DAQGAMKQGP GSCFRKDNWP PTYKELGLSRAKPLAGFPTPNPS WAPGFKRERGLISV
4698	35066	A	4739	1	154	
4699	35067	A	4740	1	617	GSRPQFPFGHTRVRASGWRPCSL KPQLLGPVHPVSPYLLFLSSSDC AMGLIDGEWQLVLNVWGKVE ADIPGHGQEVLRIRLFKGH PETLE KFDKFKHLKSEDEMKASEDLK KHGATVLTALGGILKKKGHHE AENKPRGTVSNATKHKIPVKVT WRSSPECIIQVLQSKHPGDFGA \DAQGAM\NKALELFRKD\MAS NYKELGFQG
4700	35068	C	4741	46	522	
4701	35069	A	4742	78	617	TKELLHSKRNCHQSEQATYKM GENFCNLLI*QSANIQNLQRT*T NLQEK NKQPHQKVGE GYEQTL LNRRSLCSQKTHEKILIITGHQR NANQNHNEIPSHTS*NGNH*KV RKQQVSYKLL*MRPRRTRQVT Q*RREPETSLAKETPGNPTNTN AKFKTRGARISHYSSGNGERLP RTVC
4702	35070	B	4743	1	6477	
4703	35071	A	4744	1	623	MSSDISEVEDKNEFLTEQLSKP QIKFNTLKD KFLKTRDTLARKKS LALETVHNNLSQTQQQIKEMK EMYENAEAKENNSTGKWSCVE ERICQLQHENPCIEQQLDDVHQ KECLPSRKEKFKSEPPAFLSGN QVKSSSSCSLQTLFPPDDLILYLE NPKDSTKKLLELINKFRVTGYK IKLQKSVAF LNDKNEQSKEENQ ECNPIYNNYK
4704	35072	A	4745	2	3272	
4705	35073	A	4746	1	579	
4706	35074	A	4747	3	510	

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4707	35075	A	4748	1	1261	MEAVDTFLVFNALNFLTSQTT GCSSSCDPGHGLGQSGNRFP AAASARTAEEAKWFFSNKDYS NVLQLPDPKKTEYHIHEKRFS SRILCYYPEFGKVEEIIILTAMKH DWFGKHKRDKDKIEKTGKIKIQE SFTSEEEIRIMKQEERIQAQTR EFREWRQARERDYAEIQDFHRTF GCDEL MYGGVSSYEGSMALN ARPQSPREGHMMDALYAQVK KPRNSKPSPVDSKGKVLGEADP VYPRRNPGTEGNASSLPSVSFSE SPPVRAAFAGYHYVAFPLQK LMSGTSGKDPEKEADLARVVT LRVVTLRIETHVKTLAFTAALL QQLACIDVGMDKQNDVYTYN KILLSFKRKEILTHTTTRMSLED IILSEINQWQEDKYRFGLYEVA QVVKLIETESKVVVSRDGGRG
4708	35076	A	4749	10	2051	
4709	35077	A	4750	2	2118	
4710	35078	A	4751	1	658	MWNSKTLAAFRPCPKDPLNFE LERDNLAYLAEEIPKQSQSIQYIT WMILKAFSHMHLQRDNLKLEL MFKRKAKHKGLKNLHPDHVIE KKNLFSAEKFKPAAEIYISNEEP NVNSQDNGKKCLQGMSEIFAA APAITDNTSDKTTLIKVSSWPYI ADRRCPVLNVTTREDSPSEDPVF LRTLKGKDWFGKALQGWGL KGIHHVSAQEPVCLLLPFMTPR
4711	35079	B	4752	1	471	
4712	35080	A	4753	315	407	
4713	35081	A	4754	411	1042	
4714	35082	A	4755	1	423	
4715	35083	C	4756	202	321	
4716	35084	A	4757	5	413	CFFFFFFETESHFVTQAGVQWR DLGSLQSPPPGFTFPG/SPQPPKE PGPQAPATTPGQSFAFLVEMGF HHVSQEVSSIS*PRDPPASASQS AGTTGVSHRAWTFCLRQSLA LSPDWSA VARSQLTATSASWV QVSRR
4717	35085	C	4758	150	491	

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4718	35086	A	4759	1	548	GIAFCLNLIKTLKLPNFKSCVIL LGLLLLYDV/FFVFITPFITKNGE SIMVELAAGPFGNNEKNDGNL VEATGQPSAPHEKLPVVIRVPK LIYFSVMSVCLMPVSILGFGDII VPGLLIAYCRRFDVQTGSSYIY YVSSTVAYAIGMILTFVVLVLM KKGQPALLYLPCTLITASVVA
4719	35087	B	4760	642	1985	
4720	35088	A	4761	39	252	
4721	35089	A	4762	1	783	
4722	35090	C	4763	218	358	
4723	35091	B	4764	372	374	
4724	35092	B	4765	129	1036	
4725	35093	A	4766	1211	1983	SQSCLLQEDFAPAGEQEAEQ HQEDLRALLRASLQGQCSRQP GTRLHGSAPWPGEAQNRSRPLP GDSPSLDRYRGI/SDAVGKSRSG DIGSSLRVEAGDKRTQASPERQ PHCGAHDAQDISGGREIFKPRQ LPGSAIWSIKVGHGSGFPGKRR PRGAGLSGRGGRGRSKLKSIG AVVLPGVSTADISSNKDDEENS VLDMMVLFSSSDKFTLN/QVCG SFGQGAEGRLLACSCGQCYH PYCVSIKMDACSSSELKY
4726	35094	A	4767	1	603	MANFNDCVLDKEKVCIAAKFIT HAPAGEFNEVFSDIRLLCNND LLRERAARAFAHYNMDQFTPV KMEGCEDQTIIACIESHECQPKN FWNGRWRSEWKFTITPPTAQV VGVLKIQVHYEDGSVQLVSH KDVQDSLTVSNDQAQTAKEFIKII ENAENEYQTAISENCQTMSDTT FKVLRRLPVTTRTKIDWNKILS YNI
4727	35095	A	4768	1	867	MADFDDRVSDEEKVRIAAKFIT HAPPGEFNEVFNDVRLLLNND NLLREGAAHAFAQYNMDQFH AVK\IEGYEDQVLITEHG\DLGN SRVLDPRNKISFKFDHLRKEAS DPQPEEADGGLKSWRESCDSA LRAVVKDHYSNGFCTVYAKTI DGQQTIIACIESHQFQPKNFWN GR\WRSEWKVPITPPSAQ\VG VLKIQVHYEDGNVQLVSHKD VQDSLTVSNEAQAQTAKEFIKII NAENEYQTAICGNYQTMSDTT FKALRRQLPVTTRTKIDWNKILS YKIGKEMQNA

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4728	35096	A	4769	2	690	WPSGSASRPRHLRAPEPVGKA GKNKGAGLTPA/AGTSGCAGR AESRGPPTGSHGSEPSRGSKGL CGRGTRSLPERGAEVLPHLPAQ TSPQLGSQGAWP/RHPRKPFRP AARAGTQPPGFVPSTPALLKVL YRSAHTQHSGRAAPEPSRLALG PTLQQKRHMGHRRNLTFSTY NKKCGFGWAVEMRFSALLDVT TTPSRVAFWGSRGPPPLGMERQL QLLSGYSPDGWLSTSM
4729	35097	A	4770	1	590	MDTRIGTTDTGTYGKVEGARR MRLKKLPIEYYAAYLDDEIICTS NPCEFPGYGIEREYPCETSGPLE LTVQEDQGEEPQREELTRKKT KVCGRSPLAWATGVKPCCLKKK RRRRKEERRKKKEEGEGEGEEEE EEEEEEEEEEEEEEEEEEEEEEEE EE/EEEEEEEEEEEEEEEEEEEE EEEEESDPCTSWNTSQP
4730	35098	A	4771	1	288	
4731	35099	A	4772	1	237	MRSSVIGPRSHIPSQRKSGIQEE EEEEEQEEEEEEEE/EEEEEEEE EEEEEEEEKGLLDQEAARHLV LPAATQCKPKM
4732	35100	A	4773	1	794	MASHSSPMGSQYYYGFPGPDS AMHALNTVVSEKDLTDLGL VARNKRCGPHSYSLNTHLLHA CLRLPTQRENTTLKTFIPQGWEI HTDQVEREAECQPGRKICVHD TAQELPLASTARNALLGRNLCP FRQSSTTQMPDEIPISLDDRMRP PSLKKKK/VVGEEEEEEEE\EKEK EEEEEE/DEEEEEEEEEEEEEEEEE EEEEEEEEEGGGGGVGEDEEEE EEGEDEGGGGEDEEEE*EEEEEE EQKKKEKKKKEQEEGGGEGG
4733	35101	A	4774	115	341	
4734	35102	A	4775	1	651	
4735	35103	A	4776	189	618	SLCHKEAEGGHGKAHVEGKRA PSNLQPSAPAEISGNNSISFVHHE EEEEEEEEEEEEEEEEEEEEEEEE EEEEEEEEEEEEEEEEEDLLYNFI YIIFSKMPTKVPSLWDSKLGAE QAAPEENNKKEQEEYQGKSF SFLNLTECWP
4736	35104	A	4777	1	414	

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4737	35105	A	4778	189	692	SLCHKEAEGGHGKAHVEGKRA PSNLQPSAPAELSGNNSISFVHHE EEEEEEEEEEEEEEEEEEEEEEEE EEEEEEEEEEEEEEEEEDLLYNF IYIIFSKMPTKAMSISSMFKFAT KIRMTVTPNPKCCWIPVFPAYL STSKAAKCMHHTAHHGQEKSD HCISPSPIAP
4738	35106	A	4779	2	3815	
4739	35107	A	4780	957	1493	KNRNYNKLRLRQCNPTRTQD* ETHSKPLNYMETEQSP*LLG T*RNEGRHKAVL*NQ*EKRHNI PESLGH/AKQCVEGNL*H*MPT RESRKDLKLT*/PSQLKELEKQ EQTHSKAGRRQE/TN*DQSRIEG DRDTKNPSKNQ*IQELVF*KDQ QN**TASKTNKEEKREESNRRN KKC
4740	35108	A	4781	1	4962	
4741	35109	A	4782	2421	3011	NQACQPGQAGAARAGQCFPRV AQRPGPGPAGMALAHPDLYLC HSAGDQCR*DEEADPPEGQAPT HFQVHPAGGLHLLDRLAAPQH QAGTQGGQGPGRHH*PAARSS PVEPPSTGSPSRPTTMMWPSCSR RQGGLGPG*CVQQPHLLDAP GTLPLVGLALVCRLQPWRCLPL GGGGGVGGSQRPVGGGGGNG GRNWG
4742	35110	A	4783	1	932	MRTPKSSIKPSLGEKENYRGS LKETAPSLQKEWAEQSSKSQET VGVGITRHFQVSTLLERREDR KSKEPPLLIPRQTVSGVDLQQT TDLQLSVLTVRRKTNKQKGHP HOKPICTSPSSNTKVKNLEKQL DEWLTRITNAEKSSKDRMELKT KARELHDECTSLSSRCDQLEER VSVTEDEMNMKRGEKFRER IKRNEQSLQEIWDYVVRPNLCL IGVPESDGENGTKLENTLQDIIQ ENFPNLRQANIQEI/RENAT KILLEKSNSKTHNCQIHQS*NEG KNVKGQSQRERSGYPPQREAHQT
4743	35111	A	4784	477	638	LLCCGFELPLLARRSLIV*SLLLS THQSHSPSSFVPLLVRSCIPLEEE RRSDF
4744	35112	B	4785	1	1509	

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4745	35113	A	4786	3	832	ERHHPPPQAGPHPPRRRKERN HRQPTPQPHGA/WKISVPQTTN KGISSITSTQRNQPPATTVEKA HNESRTPEEPKGAVRGTR*KK KKTSRDTPPQTP*EKSSSATRNK AGGKDSKREKATEDQTTPS KRRKLHPMAKKLKLKKN*MN G*LE*PMQRSP*RT*WS*KPRHE NYVMNAQASVTDAINWKKGPP PRPTTNDKIVTRPTHPTCSHH RPPRKPPRTHPTPTPTQNKISQ* NGYTPPRGKRVREDRCKPPQAP TSAPRAAKQRQS
4746	35114	B	4787	1580	4673	
4747	35115	A	4788	1	462	MKLEHQEAQRRSGQGREKRR WPEGKAGPGCEGAWILCPESQ DDSKQEGDNNMIVVSRNAVRS VKAEFQGDNLNWECSAEIIV QGRDNGVPHKAHGLGTEEEGT VLKISERQNWLDLVDLFGG LFHENKPSRKLHTCLELLRKY CMGDRPVQFEILSDQSVNFGFR KLTNRKDIHTKNPSVRHHHQR KVDETIKMGKTQSRKTRNSKN QSTSPPPKERSSSPAIEQSWMEN DFDELKEEGFRRSNYSELKEEV RTNGKEVKNLEKKLDKWITRIT NAEKSLKDLMEKLTIAQELRDE CTSLNQCDQLEERVSVMEDQ MNEMKREEKFREKRIKRNEQS LQEIWDYVKRPNLCLIGVPESD GENGTKLENTLQDIIQVNFNPL ARQANIQIEIQRMPPQRYSLRR ETPRHIIVRFTKVEMKEKMLRT AREKGLECSGAGLAHCKLWLL GPSDPPDCSSVSPVLRVHLVLPS SLPHSVGTPLGVSIPPSVPRFP DRVFHPYPYTHYCDNLKTCHT SHGSVMAETA VINHKKRKNSP RIVQSNLDEAAYSLSRDQKRM LYLFVDQIRKSDGTLQEHGIC EIHVAKYAEIFGLTSAEASKDIR QALKSFAGKEVVFYRPEEDAG DEKGYESFPWFIKRAHSPSRGL YSVHINPYLIPFFIGLQNRFTQFR LSETKEITNPYAMRLYESLCQY

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
4748	35116	A	4789	1314	2221	KNRNYNKLSLRPQCNPTRTQD* ETHSKPLNYMETEQPSPE*LLG T*RNEGRHKAVL*NQ*EKRHNI PESLGH/AKQCVEGNL*H*MPT RESRKDLKLT*/PSQLKELEKQ EQTHSKAGRRQE/TN*DQSRIEG DRDTKNPSKNQ*IQELVF*KDQ QN**TASKT/IQRRKERRIK*TQ* KMLKEDITTDPTTEIKTIIREYYK HLYAHNLENLEEMDKFLDTYT LPRLNQEEAESLNRPTNSEIET VINSLKEKAQDQKDLQLNSTR LFTIAKAWNQPKCPSMTDEIK/I NVEHIHHGILCSHQKE
4749	35117	A	4790	2	2260	TKDKNHMIISIDGGKAFDKIQQ PFMLKTLNKLIGDGYLKRIRAI FDKPTANIILNGQKLEAFPLKTG TRQGCPLSPLLFNIVLEVLRVI RQEKEIKGIQFGKEEVKLSLFA DDMTVYLENPIFSAQNLLKLIS NFSNVSGYKINVQKSQAFLYTN NSQIMSELPFTIATKRITYLGIQL ARDVKDLFKENYKPLLNEIKED TNKWKNIPCSQIGRILWPYCP QEDENFNLSLLQNGDILNSSTEE KFKAHDKKDFNLPEYDLNVEE RLVLEIKSVDDSTATADDTKL HINMNLNKLITNDTFQPEIMERS KTQDIVLGTSFSLINSKEETHL ENGKNYPNLESVNKVNGHSEE TSQSPNRTEPHSDCSVDLGISK STEDLSPQKSGPVGSVVKSHSIT NMEIGGLKIYDILSDNGPQQPST TVKITSADVKGKIVRSKSATLL YDQPLQVFTGSSSSSDLSGTKA IFKFDSNHNPEEPNIIRGPTSGPQ SAPQIYGPQYNIQYSSSAVK DTLWHSKQNPQIDHASFPQQL PRSESTENQSYAKHSANMNFN HNNVRANTAYHLHQLRGPARG GEMWAISPNDRLIPAVTRSTIQR QSSVSSTASVNLGDPGSTRRAQ IPEGDYLSYREFHSAGRTPPMM PGSQRPLSARTYSIDGPNASRPQ SARPSINEIPERTMSVSDFNYSR TSPSKRPNARVGSEHSLDPPG
4750	35118	A	4791	1516	1729	ILAPHSLLACRVSAERSAVSPM GFPLWVTQPFSLAALN/DFFLHF NFG/RI*QLCVLELLFSRSIVVAF SEFP

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4751	35119	A	4792	3	1426	RRYDELQNSSGRDGKPRAMAV TRSTSSTSSGSNSNVLVPVSWK RPQYSQKRAKEKLHVHLSLCG QEVGLSKNPSVIFSSCGDLDLLE HQTSLVSSDGAREQENMDDT NSEQQFRVFRDFDFLDVELEDG EELQGESMDNFWGVRRRSLD SLDKCDMQILEERQLSGSTPSL NKMHHEDFDESSEEDLTASQI LEHSDLIMTLSPSEETNPMELLT TACDSTPPEPHSFNTRMSSFDAS LPDMNNLQISEGSKAEAVREE EDTTVHEDDLSSINELPAAFEC SDSFSLDMTEGEEKGNRALDQF TLASFGEGDRGVSPPPSPFFSAI LAAFQPAACDDAEAWRSHIN QLMCDSDGSCAVYTFHVFSOLF KNIQKRFCFLTCDAAASYLGDNL RGIGSKFVSSQMLTSCSLDKL KFSVLELQEYLDTYNNRKEATL SWLANCKATFAGGSRDGVITC QPGDSEEKVIKAC
4752	35120	C	4793	60	164	
4753	35121	B	4794	44	2547	
4754	35122	A	4795	401	9546	PRADITTCDRRITPGTCSRPLPV LPASLYAADMASQQDSGFFEISI KYLKSWSNTPVGNVYIKPPV PPASGTHREKGPPTMLPINVDP DSKPGEYVLKSLFVNFTTQAE KIRIIMAEPLKPLTKSLQRGED PQFDQVISSMSSLSEYCLPSILRT LFDWYKRQNGIEDESHEYRPRT SNKSKSDEQQRDYLMEERDLAI DFIFSLVLEVLKQIPLHPVIDSLI HDVINLAFKHFYKEGYLGPN GNMHI
4755	35123	A	4796	2	6107	GERKPKIDLFRTCVAAIPRLLPD GMSKLELIDLLARLSIHMDDEL RHIAQNSLQGLLVDFSDWRED VLFGFTNLLREVNDMHHTLL DSSLKLLLQLLTQWKLVIQTQG KVYEQANKIRNSEARDLELDV GVDVDVGVDVDADVDVDVDL GVDVDVGVDVDADVDVDVD MGVDVDVDRIYFGCKCGCDR DVDRVVDVDVIDVDVDVDM DVNIDVDVGLGAGVDVDMDV HIDMDMDVDIGSDNILQSALRR

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4756	35124	A	4797	3	565	MLPGHLFCLAKAGKEEQEEKG QIITRKTITPQNIPGPAHITATH RGRCTVATKFSGGLCKEPNRLT WY/GPPLKGAHGGR/GPSSRVPS FPAAGQPPIGGALHGAGSRGLA RTRAQLGGPPGGELRGT/SGNG DGQPGDGSRSKSGSPLRPSHL/P DPAAVAGAPVSGHLQTPGHHHA GRRQQAGPRGAGLP
4757	35125	A	4798	1	417	
4758	35126	A	4799	1	1069	MPRPPVPANALGARGEAVRLQ LQGEELRLQEVSRHLHQINIYL SDRISLHRRLPVRWNPLCKEKK YDYDNLPRTSVTKAFYNEAWS TLLRTVYSVLETSPDILLEEVIL VDDYSDREHLKERLANELSGLP KVRLIRANKREG\LVRARLLGA SAARGDVLTFDCHCEHEGW LEPLLQRIHEEESAVVCPVTDVI DWNTFEYLGNSGEPQIGGFWD RLVFRWHTVPERERIRMQSPV DVIRSPTMAGGLFAVSKKYFEY LGSYDTGMEVWGGENLEFSFRI WQCGGVLETHPCSHVGHVFPK QAPYSRNKALANSVRAAEVW MDEFKELYHHRNPRARLGLAC DECSIKAGWWL
4759	35127	A	4800	1	1152	MHNSDGIEVMRQQKAEIGRVG GLEGIQLGVTEVIVNGARMLES YNCKAELGATGLVNYQISVKC SNQFKLEVYLLNAENKVVDNQ AGTQGQLKVLGTNLWWPYLM HEHPAYLYSWEGRPDGAQAVG ALTPGTLAV\EVWLTAQKSLGP/ SDFYTLPVGLRTVAVTESQFLIS GKPFYFHGVNKHEDADIQGGK FNWPLLVKDFNLLCWLGAFT CTSHYPYTEEMLQICYRYGIVVI DECPAPSGHT\GPSVPSLLARW QLFNNVSMHHHMWVVEEPVL RDKNHPAMVMWSLAKEPASFL ESAGYSFKSLTMEQATARVLDLD TGEAVLQYRSLPRGAHKTGK KRKISSYNVDLTSCQLAKEKCL KGPSSFLQSRQERMNSELRDN
4760	35128	A	4801	293	535	
4761	35129	A	4802	94	686	
4762	35130	B	4803	1	2187	

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4763	35131	A	4804	596	1789	MFHVIERPYECKEKGKFNFRSGY QLTLHQRFHTGIIHKGGKPYEC KECKKTFTLYRNLTRHQNIHTG EKLFECKQCGKTYTTGSKLFQH QKTHTEKPYECKEKGKAFSL YGYLKQHQKIHTGMKHFECKE CKKTFTLYRNLTRHQNIHTGKK LFECQECGKAYSTGSNLIQHRK THTGEKPYKCKEKGKTFSLHG YLNQHQKIHTGVKPYECKKIHT GGKPYECKEKGKAFSRASNLV QHERIHTGEKPYVCKQCGKTFR YGSALKAHQRIHRSIKVNQWL DSPRHKSINCDPMSPRTRKTRE RSHVSGRSLCQRLGQGAQLRE FKQPPRNRFRVCGLVARNTFP RGLRGRRASRRNAAASRLEDA VAELLKARCSALGGSGLPEGLS
4764	35132	A	4805	2	489	CQGEKAKWEQGMTGRRWVVG PPASSTPPHS/HFWLLVLSRGLV GIGEASYSTIAPTIIGDLFTKNTR TLMLSVFYFAIPLGSGLG YITGS SVKQAAGDWHCALRESFLQLV RLLKVTHLLQQLQLLYPTNGK RQDTNHTRSQCAHYLPHLDFQ VALCAYAVLQC
4765	35133	A	4806	1	327	
4766	35134	A	4807	899	1219	ANRKASTMRWYVRPFCGLST LSREKLYPLRMLRMRASTGPLS GALGMYSTASPRLMFSGCSISS AR*LFRSSAVTMPPAAWMSFTI WAVRLPL*KAWAPSMASVS
4767	35135	A	4808	2152	2633	SRLDCGQGLVNGSCDYHHGCT GDTPRRPEWHRSLAHCMSPV SLPGCAVSGSDPWEVSWLWQ Q/VDRCDNREE/VMW*QRLGFP SPTVSFPQRAVSASKPLQ*APS WISLHSTLSQCRASDLGRHTV PEVVYEWSPCALPTHREHPNAI MEGWPPPQAWWA
4768	35136	A	4809	2	387	SNASVILEGEDLRFSCSVRMAG RLQGRFSVIWQLVDRQNRSDI MWLDRDGTVPQGSYWERSSF GSVQMEQVQPNFSGLGIFNSRK EDEGQYEVHTEWVRVVDGE WQIVGERRASTPISIALGE

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4769	35137	A	4810	46	3753	EIRSWEKRRKRLVLCLEAADM KCFPPVLSCLAVLGVVSAQRQV TVQEGPLYRTEGSHITIWCNVS GYQGPSEQNFQWSIYLPSSPER EVQIVSTMDSSFPYAIYTQVR GGKIFIERVQGNSTLLHITDLQA RDAGEYECHTPSTDKQYFGSYS AKMNLVVIPDSLQTTAMPQTL HRVEQDPLELTCEVASETIQHS HLSVAWLRQKVGEKPVEVISLS RDFMLHSSEYAQRQSLGEVRL DKLGRTTFRLTIFH
4770	35138	A	4811	1	3728	MKCFPPVLSCLAVLGVVSAQR QVTVQEGPLYRTEGSHITIWCN VSGYQGPSEQNFQWSIYLPSSP EREVQIVSTMDSSFPYAIYTQR VRGGKIFIERVQGNSTLLHITDL QARDAGEYECHTPSTDKQYFG SYSAKMNLVVIPDSLQTTAMPQ TLHRVEQDPLELTCEVASETIQ HSHLSVAWLRQKVGEKPVEVIS LSRDFMLHSSEYAQRQSLGEV RLDKLGRTTFRLTIFHLQPSDQ GEFYCEAAEWIQDP
4771	35139	A	4812	897	1217	ANRKASTMRWYVRPFCSGLST LSREKLYPLRMLRMRASTGPLS GALGMYSTASPRLMFSGCSISS AR*LFRSSAVTMPPAAWMSFTI WAVRLPL*KAWAPSMASVS

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4772	35140	A	4813	1	1507	MWNSKINHDDHDDQFLKTYTVL ESSISVGVASNASVILEGDDLRF SCSVRMAGRPQGRFSVIWQLV DRQNCRSNIMWLD RDGT VQPG SSYWERSSFGSVQMEQVQPNF SLGIFNSRKEDEGQYECHVTEW VRVVDGEWQIVGERRASTPISII ALEMGFAVTAISRTPGVTYS FDLQCIKPHYPAQVPVSVTWR FQPVGTVEFHDLVTFTRDGGV QWGDRSSSFRTTATEKAESSN NVRLIISRASDTEAGKYQCVAE LWWKNYNNTWTQLAERTSNL LVIRVLQPD RMGVSARALRGEP SPSQMPQACCHGNTGALVIGIN EPESLPCLQTVTKLQVSKSKRT LTLVENKPIQLNCSVKSQTSQN SHFAVLWYVHKPSDANGKLIL KTTTHNSAFEYGTVEEEGLRAR LQFERHVS GDLFSLTVQRAEWL LSPNYAWYKLAEEVSGRTEVT VKQPGGSLGLGCSVSGWAAEP VCTQGPRPCSWNTPLALTAAC
4773	35141	A	4814	1	627	
4774	35142	A	4815	166	435	
4775	35143	B	4816	1	240	
4776	35144	A	4817	1	288	VVPASSPGAASEPRRRRCLQP EKSVSPGSGGGHRDPPKARPPR PPSAPKP*RPRPFS*LARSLCFPA AGCAYGVGVGGAGGGRAGLR QPVPAAVE
4777	35145	A	4818	206	1041	VSVGSAPSDMPAAATRW/CNSR CQHGQRLSAR/PVAGPGT/RTSS FPWLAPRNVVPGSLEMPGTA GPQRGSHSSPQGSSALLSFS/CV HNVESKEPVCLLLPSMASRLLT PRGTCRPVPGCLQHPLSLPPVL VGTQSPSQAPKSAKRPSQPQL GWLQLHPGGSLCLLPAPAGS MECAALESVPSQLGIGAPGPCW AQAGVQGW SNVATSSPSGPSA QGQPRAPPCLVCGPAQCCTSGS RSRATGLRPSCLCQVWWSQP CGANPGDTTSSQDAGTRCSKV
4778	35146	A	4819	2	487	

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4779	35147	A	4820	152	758	RGARGPEWDGQLDGPQSQMC GMASAPRLRRSGVRAAAGHPV QQPRLLDGLSLTDESDSCVSFEP PSHPSSSSGPVTALSRGWNFLK AFPLMGETQERER/VLTHFSRR YCQCNPD/AQPSEDGEI/TLTCA LMLLNTDLHGHVIGEVGTETN RTDKQQNRTEQSKRQANADKH NEHANNEQQHEHDKDNDTRTR DTEMRHAKRDNA
4780	35148	A	4821	100	220	
4781	35149	A	4822	100	1588	CLKISTGYTGSMASGNSLT MAEGEGEAGTSTHGQSRRKRE KEEVLHPFKQPDVRSYRENS KEEICPHDSVTSCQTPPTLGITI RHEIAASICHVADTAGVAGDA MMRKTDLIPPFIGLTQGGRSA DMGNQKKWRKGSENLATLVA MASERFWQYSGNSTIQPKQK QHGMITRLVTAPVCPGLVQPSL CAVGLRNIMSLSSHTCALQNTK QAWEGYDDCHSQRVSQPGEN MTKLSFLNLLNQMPSWGEGKM VPADFSGSCWEGTGTGSPAGSQ VSFLNRHNDGQLAGDSPGLPPP PCPRGLQGAEQRSALRRHKAD VHRDQWLVISFSKKLRTSARK WYEAGPFGVPRVLPAAQGG TDFPFPSEEPFQSPFSMVQAH TVRSKPQFHFAAGENCNLRSE LSRNQGLQARVGPLAIMSSDPS GDFVLYTPTILGFVGLVLSR EGTFLWRYSTCP/LNYKLWLP GYLGLLVPKDQKVRAVFLGM
4782	35150	A	4823	1329	1881	AHLEAAGWSSSVQPGSPRVLG RAEEHQQSGRAKEIGHKIPKE TFDELTALETISSK\CLYLAKK NQVIQQELLSMKEVQKCKKL EEVNKILEQEVVNLKTHEKNM VEFGDVEECKLQLEERAGQIE KLEEINLQRACLSAKKVRAEGE LEPRRHHTLGFTEGPWGLM SVITGAYDLIR
4783	35151	A	4824	176	308	LGNLTSPFFN*KHRSTKGFTTSL TVALLLTGHVGIKTSNCHPGY

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4784	35152	A	4825	1467	1890	DWFDELTALETISSK\CLYLAK KNQVIQQELLSMKEVQQKCKK LEEVENKILEQEVVNLKTHEKN MVEFGDVEECKLQLEERAGQEI EKLEEINLQRACLSARKVRAEG ELEPRRHHNHTLGFTGEPWGL MSVITGAYDLIR
4785	35153	B	4826	1	753	
4786	35154	A	4827	225	410	
4787	35155	A	4828	225	410	
4788	35156	A	4829	225	411	
4789	35157	A	4830	141	1001	GGVRGVQQKETCAFKVLESIG KLG\LAHSVAGGAENSALYNVD AGHRAVIFDRFRGEQDIVVGE THFLIPWVQK/PPIIFDCRSRPRN VPVITGSKDLQNVNITLRILFRP VASQLPRIFTSIGEDYDERVLPSI TTENLKSVMAPFDAGELITQRE LVSQV\SDDL\TERAATFGLIL DDVSLTHLTFGKEFTEAVEAKQ VAQQEAQRARFVVEKAEQKK AAIISAEGDSKAAELIANSLATA GDGLIELRKLEAAEDIAYQLSR SRNITYLPTGQSVLLQLPQ
4790	35158	A	4831	194	453	QPLPEPLELRPKAL*LTSPQIFSA *RLKTAARLPRKPWAVLPQGFT DTPPHFSQAQISSSVTYLSIILV KTHVLCSPFHRTGVV
4791	35159	A	4832	1	86	PCESYLEHL*WSCRLRLRLGSV SLQLLS
4792	35160	C	4833	191	263	
4793	35161	B	4834	1	741	
4794	35162	A	4835	3	96	
4795	35163	A	4836	1	301	QEQQKMNTLQGPVSFKDVAVD FTQEEWRQLDPDEKITYGDVM LENYSHLVSLAYEVATSTSEIL KPSNLPKSFFFSH*QDMISPSQT SSLWSRERSG
4796	35164	A	4837	3	273	VLHFISAGNTFAHQQEHSPRKG PNNLSKRKLLPAV\GPRVFHGE DRHL/LFSTRKE*ARSLCYVQG GVQAPAAAFCSLLSLWGWAGC AFWC

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4797	35165	A	4838	3062	3688	RSVTRAPPRSTFPLAQAPSPRSH HIREPTSPHLGPLRGSHRGPPS RPLPPALAALSLETLQPRLLHP HLHL\LHDQGRACVRAYAHPS YLWRCHALGVWVES/ARLRPS ALPPAHSPPLAAPLLSSSVQPPA PALEPPPRPPAAGAAARCLAAQ HHHPSRLGVRQPPLAVGALGST WPPQAPAPPPELSALEQDRVGA QPPPPPSQGA
4798	35166	A	4839	1	197	
4799	35167	C	4840	26	358	
4800	35168	A	4841	84	433	PASAPLGLSATVSACFQEQQKM NTLQGPVSFKDVAVDFTQEEW RQLDPDEKITYGDVMLENYSH LVSLAYEVATSCTSEILKPSNLP KSFFESH*QDMISPSQTSSLSWS RERSCG
4801	35169	A	4842	1	372	VQWLFMQICLGGKHQQLRHQG VQEKMLPLEGS*VIEAGSPTLIG ETLSLEIINYIIGAGLESVHTHKS RQLGGWTRPGSHFQQVLIPAHT PMNLEPSQLSLEPRLVPAQQSL PSAPTPSKALSQ
4802	35170	B	4843	7	267	
4803	35171	B	4844	213	3895	
4804	35172	C	4845	141	359	

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4805	35173	A	4846	831	3017	RRRLHYSGSTRPWTRAMLPR TSLRPHLSLSLHPLPCLLLHLA LPTHLP PGPKHQPTVREL/ARRC RLPRACHPAQNLEQQPLRPSH LQRH/LSLLPPLGLSQSGPPG/LA PQPLL*LQTPDHFAGADPCSIHG TSH*HQGTSNPSGRDGYQTPSH ICP\SPAPKQSFLGTQNTSPSSP AAPAASSAPPMFKPIFTAPPKSE KEGPTPPGPSVTATAPSSSLPT TTSTTAPTFQPVFSSMGPPASVP LPAPFFKQTTTPATAPTTTAPLF TGLASATSAVAPITSASPSTDSA SKPAFGFGINSVSSSVSTTTST ATAASQPFLFGAPQASAAFTP AMGSIFQFGKPPALPTTTTVTTF SQLHTAVPTATSSSAADFSGF GSTLATSA PATSSQPTLTFSNTS TPTFNIPFGSSAKSPLPSYPGAN PQPAFGAAEQPPGA AKPALAP SFGSSFTFGNSAAPAPATAPTPA PASTIKIVPAHVPTPIQPTFGGAT HSAFGLKATASAFGAPASSQPA FGGSTAVFSFGAATSSSGFGATT QTASSGSSSVFGSTTPSPFTFG GSAAPAGSGSFGIN VATPGSSA TTGAFSFGAGQSGSTATSTPFT GGLGQNALGTTGQSTPFAFNV GSTTESKPVFGGTATPTFGQNT PAPGVGTSGSSL SFGASSAPAQ GFVGVAPFGNTFAHQEHSPR KGPNNLSKRKLLPAVRAQGPPR
4806	35174	A	4847	9	935	IPCFCGAMPYQTRRQENDLR TASIAV*RRKQDDH*KQRRW QNIQRKGPKRYIVIAGNSQSHQ PMIFSMLRKL PKVTCRDVLP EIR AICIEIGCWMQSYSTSFLTDSY LKYIGWTLHDKHREVRVKCVK ALKGLYGNRDLTARLELFTGRF KDWMVSMIMDREYSVAVEAV RLLILILK\NMEGVLM DVDCES VYPIV*ASN*ALASAVGEFLYW KLFYPECEIRTMGGREQRQSPG AQR TFFQLLSFFVESKSHFVTQ GGGSGQFSAHRNLCLPGSGNFH VSASRVAGIAGAPPHTWLIYVF
4807	35175	A	4848	1	1749	
4808	35176	B	4849	282	1227	

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4809	35177	A	4850	221	907	FEDSFNRGVKKKAAKRPLKTTTP VAKYPPKKSQA VHRHSRKQSE PPANDIFNAAKAAKSDMQHRE VRVKCVKALKGLYGNRDLTAR LELFTGRFKDWMVSMIMDRE YSVAVEAVRLLILILKNMEGVL MDVDCESVYPIVLFYPECEIRT MGGREQRQSPGAQRTFFQLLLS FFVESKLHDHAAYLVDNLWDC AGTQLKDWEGLTSLLEKDQS TCHMEPGPGTFHLLG
4810	35178	B	4851	1	2361	
4811	35179	B	4852	1	878	
4812	35180	A	4853	1	313	MPHTPRCLFRPQASCLVHFLEQ QNKLLKETKLQFFQNRECKSNL EPLFEGY\TLRREAECMEANS RLASELNHVQEVLEGYKKKYE EEVALKATAENEFVALKK
4813	35181	A	4854	188	354	
4814	35182	A	4855	405	647	LPLISDQVSYPPLMSKSLASLY QESY*TILARIPLPLISPFVNSLST DLFILLIGNTSIAIFAEGVSAISL PSCNSLE
4815	35183	A	4856	1	585	MSSGEGKRTWLGSLWGGVRVP VPPICGLRVAVTSAGTSSFLA PKPTRIRGERGKGQGRG/SSGN GGRGRAGASAGGSRGEVVSVA NDGRWRGRGRGVGCPRSSKRE DNRFAKHGRASGKAWEPPPS QALRALFGPIRRRGRAAETRIV YWIKDRQLTNRDSTILELQKVL KTCCAQSMKIFCCLWNFVYKQ
4816	35184	C	4857	12	468	
4817	35185	A	4858	1	1156	MAFRKKIITAGCIDHVLVSDDS QQMQANLTQRTEAEIRKQTQIA PTFPAHSLPDKYLGFALLNRKII GTFLVFNMCNRNHEDKNEAFT VLREKKVFNLEFCTLQNYSSSEV KEKERQRFSDKQTLREFATRK ALKEMLKVLQRYKERKHIRKR NVKYSADHTDHTANQADPNQ QEPHVPGHAPDNKTIRQKQNNQ HKDNTTRKHNQMTSDTSRTNT KVSGQPRGKQTRRRHERQQA RERGQHRQK/RDAQTREHTQR QRQARAE\QVIENKREEKRTS ERTNDSTRREGTRRPRRTEKGE RQEEGDRA TATHRKDHDRQQP HGAPHCSSSRHGAPTGPLYCC SPLPGTPSCTICTVQYGRWLPH MATEQLNMAGPNQDFQDVVW

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4818	35186	A	4859	1	1580	MAPALLLLLLASGAAACPLPCV CQNLSESLSTLCAHRGLLFVPP NVDRTVELRLADNFIQALGPP DFRNMTGLVDLTLSRNAITRIG ARAFGDLESLRSLHLDGNQAG GAGHPRALRGPVNLQHLILSGN QLGRIAPGAFDDFLESLEDLDS YNNLRQVPWAGIGAMPALHTL NLDHNLIDALPPGAFAQLGQLS RLDLTSNRLATLAPDPLFSRGR DAEASPAPLVLSFSGNPLHCNC ELLWLRRLARPDDLETASPPG LAGRYFWAVPEGEFSCEPLIA RHTQRLWVLEGQRATLRCRAL GDPAPTMHWVGPDDRLVGNSS RARAFPNGTLEIGVTGAGDAG GYTCIATNPAGEATARVELRVL ALPHGGNSSAEGGRPGPRTSPP PLALLPRYNSSSEDETLIRIVPA SSHHFLLKHLVPGADYDLCLLA LSPAAGPSDLTATRLLGCAHFS TLPASPLCHALQAHVLGGTLTV AVGGVLVAALLVFTVALLVRG RGAGNGRLPLKLSHVQSQTNA
4819	35187	A	4860	2	403	
4820	35188	A	4861	87	442	PVFPWHPYSKDQKEESQSVLVI WQKTAGGGWSTWWILSFSPET EKVVKK/AHVDTL*NEMWDVT K*TAFKIPSCT*HQQHP*SFFRK SESQVIVFAGQGVKIH*YILLHS NVIHYMNEI
4821	35189	A	4862	2	651	EFIKQWDADKFEHIQTLEGHQ EIWCLAVSPSGDYVVSSSHDKS LRLWERTREPLILEEEREMERE AEYEESVAKEDQPAVPGEIQG DSYFT*KKTIVTK\AAERIMEA FELYREETAKMKEHKAICKAA GKEVPLPSNPILMAYGSISPSAY VLEIFKGIKSSELEESLLVLPFSY VPDILKLFNEFIQLGSDVELICR CLFFLLRIHFGQITS

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4822	35190	A	4863	1	703	MGLTKQYLRYVASAVFGVIGS QKGNIVFVTLRGEKGRYVAVP ACEHVFIWDLRKGEKGLKQEV TCLCSPDGLHLAVGYEDGSIRI FSLLSGEGNVTFNHGHAAITTL KYDQLGGRLASGSK/RQPGGIV FTESILAYSSACQDKQNHYWGS SQ*CADFVIQLRQYCCSFSCS*F H*NMEQVYTAVYSHNDL*ICTL LILCTW**TGSHRNKAPKTMFP RCTEGLDRGNRPATHS
4823	35191	B	4864	1	2616	
4824	35192	A	4865	3	674	PECTGRTLRSASQQHDTFYILA CELNSLADDAQR\YDVP\NSCL YPPDLPWRPVMQAKKELARR DDIEDGDSMISSATSDTGSKR KSKKNIRKQRMKILFNVVLEAR EPGSGRRLCDLFMVKPSKKDYP DYYIIILEPMDLKIIHNIRNDKY AGEEGMIEDMKLMFRNARHYN EEGSQVYNDAHILEKLLKEKRK ELGPLPDDDDMASPKLKLSKA ASHFII
4825	35193	A	4866	3	425	
4826	35194	A	4867	1	1115	LCSVPTLCLASSHLVSNLSTFKQ VTSSFIRHV VATLLGLYLALFCF GWYALHFLVQSGISYCMIIIGV ENMHNYCFVFALGYLTVCQVT RVYIFDYGQYSADFGPMMIIT QKITSLACEIHDGMFRKDEELT SSQRDLAVRRMPSLLEYLSYNC NFMGILAGPLCSYKDYITFIEGR SYHITQSGENGKEETQYERTEP SPNTAVVQKLLVCGLALLFHLT ICTTLPVEYNIDEHFQATASWPT KIIYLYISLLAARPKYYFAWTLG TAPRKWSPCPGPQCIQLRAADP SGPELLMLSSQERQPKAKPPK EAHADIAGTPREGEKTRTGGPG KAFLRDPGASSSVELSRTQLWV LTPPPIAKAPCECLQ
4827	35195	B	4868	218	656	
4828	35196	A	4869	1	180	
4829	35197	A	4870	12	199	GLFPLEPGANGI*GC/SGRIRAQ RWLPGRPKFTGESFIR*PPRVAK ESGQLIWFGCVPTQISS

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4830	35198	A	4871	1	5058	MKLRGVSLAAGLFLALSLWG QPAEAAACYGCSPGSKCDCSGI KGEKGERGFPGLEGHPGLPGFP GPEGPPGPRGQKGGDGIPGPPG PKGIRGPPGLPGFPGTPGLPGMP GHDGAPGPQGIPGCNGTKGER GFPGSPGFPGLQGPPGPPGIPGM KGEPGSIIMSSLPGPKGNPGYPG PPGIQGLPGPTGIPGPIPPGPPG LMGPPGPPGLPGPKGNMGLNF QGPKGEKGEQGLQGPPGPPGQI SEQKRPIDVEF
4831	35199	A	4872	3	1646	EDEGRAKGHHTWQQTRENEsq AKGETPYKTIRFREYYHKNSM GETTPMIQLSPTGSLPQHVGIM GATIQDKIWVTPGLPGFPGTPG LPVKRGFPSPGFPGLQGPPVIP GPTGIPGPIGPPGPPGLMVTGP PGLPGPKVNMGLNFQGPKEK VKQGLQGPPGPPGQISEQKRPID VEFQKGDQVIPGDRGPPGPPGI RGPPVTPGGEKGEKGEQGEFG KRVKPGKDGENGQPGIPVMPG DPGYPGEPGRDG/EKGNAVMG PPGPPGFPGERGQKGDGPPGIS IPGPPGLDGQPGAPGLPGPPGPA GPHIPPSNKGDTFCNCIGTGISG PPGQPLPGLPGPPGIPGAPGA PGFPGSKGEPGDILTFPGMKGD KGELGSPGAPGLPGLPGTPGQD GLPGLPGPKGEPVRITFKGERGP PGNPGLPGLPGNIGPMGPPGFG PPGPVGEKGIQGVAGNPQGPGI PGNKGDPGQTITQPGKPLPGN PGRDGDVGLPGIPGLPGQPLP GIPGSKGEPGIPGIGLPGPPGPK
4832	35200	A	4873	110	256	CSGTYRCYSF/HSRDPYLWSAPS DPLE/LVVTGPARQYYTKGNLV RIASGL
4833	35201	A	4874	2	2888	LSDPCSSRWDERSLSQRSRSWS YNGYYSDLSTARHSGHHKKRR KEKKVKHKKKGKKQKHCHRRH KQTKRRRILIPSDIESSKSSTRR MKSSCDRERSSRSSLSHHSSK RDWSKSDKDVQSSLTHSSRDSY RSKSHSQSYSRGSSRSRTASKSS SHRSRSKSRSSSKSGHRKRAS KSPRK TASQLSENKPVKTEPLR ATMAQNNVVVQPVVAENIPV IPLSDSPPSRWKPGQKPWKPS YERIQEMKAKTTHL

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4834	35202	A	4875	350	986	LWGGGSARLLRLPRGPCLPPAS PSSPSSSELS*SCSLGPSSSSSSS SSSCSLCPSSSSSSSSP*LPPSSSS SSSRPLPPSSSSSSSSSSSSSSSS SECLCSPSSRPRTTVAGLGAPAG FPSGPVDTCVWLLRFTSTMIW DCSLRL*VPEPPSSSSNSSPPSSL HKLAGGPASSTPPSFSLKKG WAGPMVAGTVPPAVPAPSSTR TE
4835	35203	A	4876	1	496	SQSYS\RGSSRSRTASKSSSHSRS RSKSRSSSKSAVLASTARCAGS RKQCVPLPIRLCQLQSRSLQPS MVPWRWGLTGPRGIALPPAAR PGPLHEAPRWGPPRRRAPRPWP PGARPGRRRRRRAASPSSCG PRASGAAGGGRGAPIGARASA GAAVWTPISTT
4836	35204	A	4877	3	4578	TLAVFVPTLAGFSVALGGPAW GRRRRSVSGVGVLQWQCFLF CSRGPAQAGGQPALAATSVAM GAQDRPQCHFDIEINREPVGRI MFQLFSDICPKTCKNFLCLCSG EKGLGKTTGKKLCYKGSTFHR VVKNFMIQGGDFSEGNGKGGE SIYGGYFKDENFILKHDRAFLS MANRGKHTNGSQFFITTKPAPH LDGVHVVFGLVISGFEVIEQIEN LKTDAASRPYADVRVIDCGVL ATKSIKDVFEKKRKKPT
4837	35205	A	4878	1	1689	

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4838	35206	A	4879	1	1604	MGISCPGSSKMLNSRALPVLKL TQGALRDCRKERANYTNFNIIYK AVESQGKFVCVLYNGQQSPEY VMIPCTSVSPTGQEVPEDRGMR MVMKNKPNKPSKMQLKSSKH LTNSVIVIAVGIFSVTLQARDP QLDDAIEQLRGVCIRAWKITS GGEQYPSFSAIKQGPKEPYIDFI ARLQESLKKMIADSAAQDIVLQ LLAFDNANPDCQAALRPIRGKA HLVDCIKACDDIGDGSSNGKAS YFGSKSKVFQTSYTSQAQKAEV AVIEVLTAFTDMPINVISDSSYM VYSTQLIENALRFHTDEQLMT LFTQLQTAFRSTMHPFYITHIRA R\HTPLPGPLTEGNQMADCLVA NAISNARHFHNLTHVNASGLK HRYSTWKEAKNIIQRCPTCQM VHSSFRGGVNPGRGLEPNSLWQ MDVTHIPLFGRLAYVHKRRRIR GGGGGEGEGEGEGEGEEEEEEE EEEEEEEEEEEEEEEEEQEQEQE QEQQEQEQEQEQEQERRRKDTE ELSYSLPLNRTQPCWHPDFGLP
4839	35207	A	4880	1	1146	
4840	35208	A	4881	1	1577	MGQVWALVHSTLETFTDEEE GEYNEVTEQVCLPAKAGSAAV DLCCTKAVSLLPGESPQKVPTG AGGPLPAGMTGLLLGRSSLNIK AVQVQTGVTDSDYNGEIQVTS TSVPWKAKPGDHIAQLLIVPKK FIEGLKEPLQVERQSSCQGLGY/ PFLMAAIVKPPEPIPLKWLTDKP IWTEQWPLSKEKLEALEDLITQ QLKKGHIAPTFSPWNSPVFIKK KSAEQDCEWFVFTILAVNNLQL KPAKRFBHWKVLPGPNQQPIWI PSRYLKPYPHKPDAKEEIPESQ GFPVAAMSRLTLRRTPTVTSNT HRTQPPTWGQIEKLQMAEENL RKAGQPVTISNWILPRITKFKPI EGAENVFTDGSSNGKASYSGSK GPLTEGNQMADRLVAKVISNA RHFHNLTHVNASGLKRRYSIT WKEAKAIIQRCPTCQVMLSAAE QHLQKSAKTEAEKLVWWRD PITKSREIGKIITWGRGYACVSP GPNQQPIWIPSKHLKPYHKPDA GEKISGGNCGPHPHRLQPCPD

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4841	35209	A	4882	1	420	MTNISTTLKDLKDAGMIDPIKS TFNL/PIWIPQKPDGSKTTANN /R/KLNQATISIAAIVLDVASLPG KARSYHGFSSHAGRVIDSNQK DIEGCTYILNVAGKNMFGIQLR RSVIFPCPNLMYTDNCSSHGPR GPSDYDSDP
4842	35210	A	4883	213	687	PEHILPGAQEGPSC/PLEPELE/V *NMSSWNTLSECKMHGDLKY LFVITAKDQQ/VSIAAST/*GFC WNQ*VSASPSQAPGMPLVLGR RLWQGSRLGGLSISLSDCHGA HNHSFKRVTTTLQVFSWTPQ AEPAMDCIHTA/DSRQRLP*QA HESVAEVIIT
4843	35211	A	4884	1	648	MSSWNPLPESFKKHGYLLYLFV ITAKDQQ/VSITASTWGFYWNH SQGKNPEQMEASQKPVAGLWA WWLNISLSAASHGAQNHFPKR VTTTLQSQGWNKDLWIMRELL CNNRPEQLLQETATIKAPIAPAD PWSQEVYINFCKAVSSVSCMPF NIHFNSNIPPESSGDWRMQQPC KVEQSILGAQRGGGGCRPGSLR ELFPCLLAEPNMEEEVAALRA
4844	35212	A	4885	3	597	GTLEPAAEWSVLLGVHSDQGP LDGAHTRAVAAIVVPANYSQV ELGADLALLRLASPASLGPV WPVCLPRASHRFVHGTAACWAT GWGDVQEADPLPLPWVLQVEE LRLLEATCQCLYSQPGPFNLT LQILPGMLCAGYPEGRRDTCQP SPEPGPMCIS/VSHIQLRLDAVS HTWQRGTPEARLGSWERRQRQ QQQGPV
4845	35213	B	4886	387	552	
4846	35214	A	4887	20	612	
4847	35215	A	4888	792	959	TGLSSSQNPKATKSIPWHNRLL PNVDSQVQQNSQAIITN*GNS ESQYPFSKMDT
4848	35216	A	4889	268	500	
4849	35217	A	4890	1	529	
4850	35218	B	4891	259	1672	
4851	35219	A	4892	480	657	
4852	35220	A	4893	2	377	WCDFFSSSLHRSVQALRTFCVTL SGAFVRDCTTVLSSTCEPSTD V/CWAMNIVTSVLLLYGSEEEA FWLLVALCERMLPDYYNTRV VVIRTYDQRYEQCDLYDGLP TTLFTTDDWHVWPDLTGLP

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4853	35221	A	4894	1	251	TEARKAAAVMPKTAVLAAERP KKA WGVLPKKSTK RTPKAFA GGGCW/TKVGWSKVAKKVPKP EASKPKKAAPKTRRYKSTLTKT
4854	35222	A	4895	283	427	PSVSKESPLNSPASQAGSATFAT TPLTPPK/PAATSSVAAAALLPA LPR
4855	35223	A	4896	111	1095	SRGWSRLPVPCCAPALLSPWAV NGIRRRGAGDGTRRGSGCAG AHSAGLVASGPESWIPGPVPPG AEPPIRGDSGLARCPAGHPSR ASPQRPAEGFDALAAPSRVPGD SRQLSRNNTRSRCEGRGGKTPP AWAGVHRHGPPPAAPPGRARV HGHRLRGGGLPGGGKRGRLPGC CPRAADPRGRP/GETSRSGERG PGRSAPLSLQPRHRTGLET/RQP SPLARSRPG LGPRPSARRPSRPA PPPPPELHRGAPQRGRVASQT RPGARARPAADTHSSLKSPASQ AGSAFATAPLTPQKPQLRAP WQPLHSFRPCRGVTSRLRTAPP
4856	35224	B	4897	243	452	
4857	35225	A	4898	3	353	RRYLSPKYIKMFVLDEADEMLS RGFKDQIYDIFQKLNSNTQVVL LSATMPSDVLEVTKKFMRDPIR ILVKKEELTLEGIRQFYINVERE EWKLDTLCD\LSAMHGDMDQK ERDVIMR
4858	35226	A	4899	3	410	NLQEWKLDTLCDLYETLTITQA VIFINTRRKVDWLTEKM HARDF TVSAMVCLPAASLLWVCPSEV SYLKPGFLEPRCLPGLLHICFLF QHGDMDQKERDVIMREFRSGS SRVLITDLLVSRGN**QRQKG GSKVI
4859	35227	A	4900	1	235	MLSYVLEVTKKFMRDPIWILVK KEELILES IHQFCINVEQEKWKL DTLRDLYETLTITQA\VIFTNTR RKCCSKVREI
4860	35228	A	4901	3	48	NSNVEREEWKLDTLCDLYETL TITQAVIFINTRRKVDWLTEKM HARDFTVSAMHGDMDQKERD VIMREFRSGSSRVLITDLLVSR GN**QRGTRGVEAGHTM

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4861	35229	A	4902	2	879	AQFPTRLDLKATQALVLAPTRE LAQHIQKVVMALGDYMGASC HACIGGTNVRAEVQKLQMEAP HIIIVGTPGRVFDMLNRRYLSPK YIKMFVLDEADEMLSRGFKDQI YDIFQKLNSNTQVVLLSATMPS DVLEVTKKFMRDPIRILVKKEE LTLEGIRQFYINVEREEWKLDL LCDLYETLTITQAVIFINTRRKV DWLTEKM HARDFTVSAMHGD MDQKERVIMREFRSGSSRVLI TTDLLARGIDVQQVSLVINYDL PTNR\ENYIHRIGRGGFRGKGV AINMVTEDK
4862	35230	A	4903	1	1764	MASLEEGIYSLKINSKRSSYN MNPQFTAGSEGNETEENPKFQ SRKGRPQDSGSSLSVLQELG DDIPKVKEEAVISSQDLGECY CGERPARNATIFAPQKEKESAP EMSSSCDKRVTNPPKFFSEGR PKTQNTLICEKCSQPSNFLDDY NPHVIIQKRLSNQSRVICEKSSP PLNVPDNYNSHVIQKHKEKM AIERPSSGSDWSDVGGTTVIFSE EKPFSCLCPVVSEPPYYATDYT TFPPHYSPWHDYTSSWFSSTKS SCYPSLGSSSNTLQAGKSSCSSS SRSNNNIFQGERSSHQSFLSDYS TSFPVSSENTSRLKMTTEGRS KNSSLFYYSRNVEAEAKEERVY QEETLGHPYGGGRASSFPRTIW QPEQPGFIDTHCHLDLLYSRLPF KGTFTKFRKIYSNTFPKEFQGC SCFCNPQNLSNLDNLWEDQLKDD LVWGVFGCRPHFAHYNNYQE RSILKALRHPKAVAFGEMGLD YSSKCTTHIPEQQKVFKRLRL AVSLK\KPMMIHCREADEDLLG ILKKYVPSDHKMYQHCFGTGSYP VIKPLLSCFPNLYVGFMAILTYS SAEQARETVKK

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4863	35231	A	4904	125	820	VLAPNYHITFRNLSSVSSPV TSA EPVLQAGQARELSFSSLHPASPL LVPSTPALTLHAFNALVLFPSFP LEKAAKRERPKSKIQITARVGK MRRTWSPHTTISAGGSVNGAST LKNSLVWEAKPADTTNPTPPTT HPNPGPTPPTNTNRHPPPHPLT NTPAPPHQPPATTP/SPQTQTPN YCPNTDHTTPTHDTNPVPPTTR RTPPNRTGKRTNTSQNYRLVSP APKIHWEA
4864	35232	A	4905	407	757	
4865	35233	A	4906	5	426	GKTSTKSQNASSPPKDHNSSPA REQN/WIENEFNELTEVGFRIT SLEKNINDLMELKNTARELREA YTSINSQINQVEERISEIEDQLNE IKHEDKIREKRMKRNNQSLQEI WDYVKRPNLRLIGVPESDIENG TKLENTL
4866	35234	A	4907	1	2267	MTGQFQDVVREEARPLPNRIM RLRFNHFATECSWDHLYVYDG DSIYAPLVAAFRCEVENRYQGN PLRGTCYYTLLIDYQFTFSLSQE DDRYYTAINFVATPDEETPIRG RQTAHTGELQLTSGGYPSGMK LPEEGTGERNRITINKKDVHTET PSKGHQHQRPKVDKSTKIKKN QRKKAENSKNKNASSPEDHN SSPAREQNWMENEFDELTEVG FRRWVITNSSKLKKHVLTOCKE AKNLEKRLGQLLTRITSLEKNV KELMELKNKAQELCEAYTSINS QIDQAEESISEIEDQLNEIKHED KIREKRIKRNKQSLQEIWDYVK RPNLRLIGVPESDGENGTLEN TLQDIVQDNFPSLARQANIQIE ILKTPQRYFSRRATPRNIITFTK VEIKGKMLRAVREKDHSIAIKLE LRIKKLTQNCTTMWKLNNLLL NEYWVHNEIKAEINKFFETNEK KDTTYQDLWDATAKAVFKGKFI ALNAHRRKWERSRIDTLTSQK ELEKQEQTNSKASKRQEITKIR AELKEIETQKTLQKINESRSWFF EKINKIDRLLARPIKKKREKNQI DTIKNDKGDIPTTEPTMQTTIRE YYKHLANKLENLEEMDKFLD TYTLPRLNQEEVESLNRPTTSSE IEAIINSLPKSPGPDGFTAKL YQRYKEEVVPLLLKLFQTVGK EGPLPNSFYWANIILIPKGRHT

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4867	35235	C	4908	605	760	
4868	35236	A	4909	94	400	
4869	35237	A	4910	1	1538	MPIQMQYPQYKLVENKTQPPVI YQYWPPADLQYRPPPEVKYRP QVVCPVPNSTAPYQQPTAVVF NPTAPPSGGQIIAQNNTDLVEWF FLPHSTIKTFTLYLDQMATLIGQ ARLRIKLCESDSDKIIVPLNKEQ VRQAFINSQAWQIGLADFGII DNHYPKTKIFQFLKLTWILPKI TRHKPLENALTFTDGSNGKA AYTRPKERLIETQYHWAQRAE LVAVITVLQDFNQSNIVSDSA YVVQATKDVETALIKYSIDDQL NQLFNMLQQTVRKRNFPHYVT HIRAHTNLPEPLTKANEQVDLL VSSAFLEAQELHALTHVNATGL KNKFDITWKQAKNIVQHYTQC QIPHLPTQEAGVNPREQHFTGK KNSPHEGKLIWWKDKKNKTW EIGKVITWERGFACVSQGENQL PGWIPTRNLKFYNEPLGDAKKS ASAETKNPQLSIIDSPGKAPGCL MPTTQNLVVEVPTVSATSKFT YHMYPPAPKRQRPARTGHND DGSFVKKGDM
4870	35238	A	4911	1	759	FRMVIRCLPQRELDICDRGNWT ATSAELTGKWRRYNFGGHGD CGPIISVPAQDDPILLSFIRCLQA NLLCVWRRDV*PDC*ELWIFW WGDEPNLVGVYIMNCRLWKK DSGKMAFPMNVGRC/FFKAIHN LLERCLMDKNFVRIGKWFVRP YEKDEKPVNKSEHLSCAFTFFL \HGESNVCTSVEIAQHQPYYLIN EEHIIHMAQSSPAPFQVLVSPYG LNGTLTGQAYKMSDPATRKLLIE EWQYFYPMVLKKKKK
4871	35239	A	4912	1	539	MRHPCDGNLSLYFDHISVNMLA VMLYYGFRVSGIKTGLRGVQ RHLWPLPLDASSTKTVSSSHSD KGEIFSPFPCSLINCNNFEMRNT TKCLMDKNFVRIGKWFVRPYE KDEKPVNKRVTSEIWLDFEY\ GVSLPCFAVERCALLPLCLLPR LMISISSTRQPQYISRRGLKAKI SWVV
4872	35240	A	4913	198	620	

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4873	35241	A	4914	63	1267	RNRILRMEFFDWFWAFWSWLL NMIRSQNAKDSSSNSMENTDSP WCELFRELCKINALDVPDSLLV RGNEFSASVHNTFDHMWRTKE RYEAGWLLLSSADRVMKENDE LRDSVSWLQKQILSLKSAKIAL SGSLISYRERAEIVEKQTQTLIM RVADLQKGYINSPALCHNLIW RDLDFHSFPYDITLFHYIDIML IGSSEQEVANTLDILKGQRFVLT VIDTYSRYWFASPECNASE/KT TIHGFTECHYHGHIPHSIASYQG THFMAEPPGWASKNQGVETPF TITPSDPVATFLLPVPMTLRSAG LEVLPPEGGLPPGDTTMIPLN WMLRLPPGHFGLLLPLSQQAK KGVTVLAVVIDPDYQDEISLLF HNGAIISDGNVILIGLLQWFST
4874	35242	A	4915	2	2210	
4875	35243	A	4916	1	2036	MDTFLDITYTLPRLNQEEVESLN RPITGAEIVAIINSLPTKKSPGPD GFTAIFYQRYKEELVPFLLQLF QSIEKEGILPNSFYEASIIIPKPG RETTKKENFRPISLMNIDAKIVN KILAKRIQQHIKKLIHHDQVGFI PGMQGWLNTCKSINVQHINRA KDKNHMIIISIDAEKAFDKIQQPF MLKTLKKLGTDTGYFKIVRAIY DKPTANIILNGQKLEAFPLKGT RQGCPLSPFLFNIVLEVLAIR QKEIKGIQLGKEEVILSLFADD MIVYLENPIVSAQNLLKLISNFS KVSGYKTNVQKSQAFLYTNNI QTGSQIMSDLPFTIASKRIKYL IQLTRDMKDLFKNYKPLLTEM/ KTKKWKNIPCS/WELEKTTLKFI /WNRKRARIAKSILSQKNKAGG ITLPDFKLYYKATVTKTAWYW DQNRDIDQWNRTEPSEITPHIY NYLIFDKPEKNKQWGKESLFN KWCWENWLAICRKLKLDPFLT PYTKINSRWIKDLNLRPKTIKTL EENLGITIQDIGMGKDFMSKTP KAMATQAKIDKWELIKLSFCT AKETIIRVNRQPTKWEKIFTTYS SDKGLISRIYNELKQIYKKKKQP HQKDFAYHFTVFVYFGAFLLE AAATSLHDLHCNTTITG/HATPE **PV*HKRSSLTITYLCRSG*IIW WCDPHTHS
4876	35244	A	4917	1	1359	

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4877	35245	B	4918	1	948	
4878	35246	A	4919	1	981	
4879	35247	A	4920	1	3747	
4880	35248	A	4921	1	1875	
4881	35249	A	4922	1	2238	
4882	35250	A	4923	1	3924	
4883	35251	A	4924	1	1068	
4884	35252	B	4925	62	389	
4885	35253	B	4926	1	3663	
4886	35254	A	4927	1	1474	MAVSTTVRVDMPCCAVMLYC WGRSGKEQQPDEALKGKGFTV CFEGLRFGQKPGSYFSLDQIGH VEIQMITPPWRGTTLSTKRGG KRGKTESDREHNLAPPKGRDTP KKEGAHVRRGGLSGTPPTEKK GKARSPRYGDTHRGEGLNKT RAPQNFSESPEPTINKIDRPLAR LIKKKREKNQIDTIKNDKGDITT NPTEIQTIREYYKHLIYANKLE NLEETDKFLDTYTLPRLNQEEV ESLNRPIITGSEIEAIINSLPTKKS PGTDGFTAKFYQRYKEELVPFL LKLFSIEKEGILPNSFYEASHIL PKPGRDTQKKENFRPISLMNID AKIVSKILANRIQVHIKKLIHHD QVGFIPGMQGCVGSSARAIGQE KEIKGIQLGKEEAKLSLFADDTI ECLNPVISAQNLFLKLNFSKV SGYKIHVPKSVSFLYTNNIAES QIKNAIPFTIASKRIKYLGIQLTL EVKELYNKNYKTLLEIRDE
4887	35255	A	4928	419	1002	CYQRWKVLKSSGPLARL/IKK REKNQIDAIKNDKGDITTDPT EIQTTIREYYKHLIYINKLENLE ETDKFLDTYTLPRLNQEEVESLN RPITGSEIEAIINSLQTKKSPGPD GFTAKLYQRYKEELVIYRFNAIPI KLPMTFFTELEKTTLLKFIWNQK RIRIAKSILSQKNKAGGITLPDF KLYYKATVTKTAWYW

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4888	35256	A	4929	1	2502	MFFETNENKDDTTYQNLWDTFK AVCRGKFIALNTHKRKQERSKI DTLTSQLEPEKQEQTTHSKASR RQEITKIRAEELKEIETQKTLQKIL QKINESRSWFFEEINKIDRLLAR LIKKKREKNQIDAINKDKGDITT DRTEIQTITIREYYKHLVANKLE NLEEMDKFLDTYNLPRLNQEE VESL\HRLITGSEIEA\NSLPTKK SPGPDGFTAKFYQRYKEELVPF LLKLFQSIEKEGILPNSFYEANII LIPKPGTDTTKENFRPISLMNI DVKILNKILANRIQQQIKKLIHH DQVGFIPGMQGWFNHKSINVI QHINRTKDKNHMIIISIDAEKAF DKIQQPFMLKSLNKLVLVLAR AIRQEKEMKGIQLGKEEVKLSL FADDMIVYLENPIISAQDLLKLI SNFSKVSGYEINVQKSQASLYT NNRQTESQIMSELPFTIASKRIK YLGQQLTRDVKDLFKENYKPLL NEIKEDTNKWKNI PCSWVGRIN IVKMAILPKVIYRFNAILIKLPM TFFTELEK\TTLKFI RNQKRACIA KSILSKKE\KAGGIMLPEFKL*Y KATVTKTVWYWCQNRVIDQW NRTEPSEIIPHIYNHLIFDKPDKN KKWGKDSL FNKWCWEHWLAI CRKLKLDPFLTPYTKINSRWIK DLNVRPKTIKTLAGHLGNTIRDI GLGKDFMTKTPKAMATKAKID KWDLIKLSFCTAKETAIRVNR
4889	35257	A	4930	1	4187	MGDFNTPLSTLDRSMRQKVNK DSQELNSALHQADLTDCRTLH PKSTEYTTFAAPHHTYSKIDHIV GSKALFSKCKRTEIITNCLSDHS AIKLELRIKKLTQNRSTTWKLN NLLLNDYWVHNEMKAEIKMFF ETNENKDDTTYQNLWDTFKAVY RGKFIAFKAVCRGKFIALNAQN RKQERSKIDTLTSQLELEKQE QTHSKASRRQEITKIRAEELKEIE TQKTLQK\ISERSWFFEKTNKI DRPLARLIKKKR

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4890	35258	A	4931	1	1818	MSSRGPTLETLINPSPSVADDI PHLRPKPVYITTTTRDNENIYSTK IPYMAARVVFIFKWIWTFLEKK YLTATQNTKNGVDVLPKIIQTV GGGAVQERAPELDGGGPTEQD KSHSNSSTLSDRRLSNSSLCSE EEHRMVYEMVQRILLSTRGYV NFBNEVFHQAFLLPSCEIAVTR KVVQVYRKWILQDKPVFMEEP DRKDVAQEDAELGFSETDSK EASSESSGHKRSSSWGTHNSFT SAMSRCVTEEG/TIQMLKAGV QALLQPVLCVFLIPLPLCNQA ARPAVVSIPGLDLPWLSVLGG PADQWHLSTYKPEGSSAYACIL EALASAGKGLWKVSAVGRKP WTRGRSDRKTGVGHQVQFLFF KDEGRVDSRILTMVAWIRPN LCVYISRELWDDFLGVLSISLTE WEELINEWANIMDSLTAVLAR TVYGVEMTNPLDKLSEQKEK KQRGKGCVLDPQKGTTVGRSF SLSWRSHPDVTEPMRFRSATT GAPGVEKARNIVRQKATAKRS QSIKNCVHLSEALPATKSVPLLL HTLYKNKALKALGQPVGKAD QLVVAGSPSVCCVEDQWGRSN LEAMVLWLYCIPPDGDVLYL
4891	35259	C	4932	96	278	
4892	35260	A	4933	1	261	KLRLPPGHFGLLLLLSQQAKKG VTVLAGVIDPDYHNEISLLHN GGKKKTRPAEMLAEGKGNT WVGEEVSHQYQL*PHDQLQKR
4893	35261	C	4934	36	385	
4894	35262	A	4935	1	2349	
4895	35263	A	4936	207	561	QLAEPHWIPGTRKDAQCLVGL FGFWRQHIFHLGGLLWPIYRVT QKAASFEGWPE*EKALQQIQPS VQAALPLGP*DLADPMVLEVS MADRCAGWSLWQAPIGELQQ KPLGFWKALP

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4896	35264	A	4937	1	1375	MSTTQLDTMGAESLCNMETVQ VEDEGIQKLKEIRMVEWITPFRP THPSCEGPEDIPLTNALQNTFVR AAPASLKSPVVALLLSPVGYRT HAVVISPVPECRFGIDILSSWQN PHIGSLAGRAHQKQFVGSWQG QQYAFTVLPQGHINSLALCHNL IWRDLDFLLSQGITLVHYTDD IMLIGSNLADPMVLEVSMADRC AGWSLWQAPIGELQQKPLGFW SKALPSSADNYSFPERQFFACY WALVETECLPTGHQLTMQPEL PIMNWVLSDPSSHKWVHGQSG HGGRDSGYSWTQQHGLPLTKG DLSMTTAEQIFQQRPILSPRY GTIPWGDQPATWRQKWQRFVL TGIDTYSRYEFAYPACHASTKT TIHGLMEFLIHHHGIPHSIASDQ GTHLMAKEVRQWAHAHGIHW SYHVPHHPEVAGLIERWNE\GL LKSQLQHQLVNRLRRELQCWL
4897	35265	A	4938	1	324	INCLRNCKTYQA/RKPLWFYNT SLKFFLNKP/MLADVVFIEIQT VPAHRAILV/ARCEVMAAMFN AGIFQAMCLLCAE/MYQVSR QHICELFII/TQLQSMPSREL ASMLNL

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4898	35266	A	4939	108	2304	VAAAYPPASPPWSPARSLAGA APAPLCVGPAAVEAREGDAAG DERIAGELAARGPREAVSRCFS PSRRPALGFEIMSIHIVALGNEG DTFHQDNRPGLIRTYLGRSPL VSGDESSLLLNAASTVARPVFT EYQASAFGNVKLVVHDCPVW DIFDSDWYTSRNLIGGADIIVIK YNVNDKFSFHEVKDNYIPVIKR ALNSVPVIAAVGTRQNEELPCT CPLCTSDRGSCVSTTEGIQLAKE LGATYLELHSLDDFYIGKYFGG VLEYFMIQALNQKTSEKMKKR KMSNSFHGIRPPQLEQPEKMPV LKAESHYNSDLNLLFCCQC VDVVFYNPDLKKVVEAHKIVL CAVSHVFMLLFNVKSPTDIQDS SIIRTTQDLFAINRDTAFPGASH ESSGNPPLRVIVKDALFCSCLS ILRFIYSGAFQWEELEEDIRKKL KDSGDVSNVIEKVCKILKTPGKI NCLRNCKTYQARKPLWFYNTS LKFFLNKPM LADVVFIEIQGYG QCPAHRAIL\ VAPCEVMAAMF NGNLHGKAKSVLIPVYGVSKE FLSFLEYLYTDSCCPA\ GIFQAM CLLICAEMYQVSRQLQHICELFII TQLQSMPSRGTGHPWNLDIS/V DLL*KGPSFHHSWIAFSTWAYF HFHCYLYTYLIFQFKRPGIFRDLF S/EGRNGSFLFGKRHRWGPSNM LLGRQLAGITGKYFTSPGNVG
4899	35267	B	4940	1	3117	
4900	35268	A	4941	1	1162	MRVCARACVTRTRMCVYAH TCVCVRTYAYVRVRVRVHVRA RVRVCA YARTRVRNSLSILPFIQ LTLATPIHHIHQEEFNIRGIVPVL RRVKPDLAIGIDITPSCDTPDLH DYSEVRINQGVGITCLNYHGRG TLAGLITPPRLRMLEQTALEHN IPVQREVAPGVITETGYIQLFLP GWEIGFSPLALLAFLCSTSPGF GDPDGLGVIA YQDTPVPNAAT AISELNALAVKGVILTGDNPRA AAAIAGELGLEFKAGLLPEDKV KAVTELNQHAPLAMVGDGIND APAMKAAAIGIAMSGTDVAL ETADAALTHNHLRGLVQMIEL ARATHANIRQNITIALGLKGIFL VTTL\MTGLWLA\VLADTGATV LVTANALRLLRRR

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4901	35269	A	4942	1889	3387	QWAIKQFKHAEKENPYLFGGG HLRAIFR*SGFQ*RQLHTMHWG AS/QQAHP/LAQPSTRAQLRTPI P/TADS/QRALVGSGMKPRLNG ERVLICAAGKHPADAFTGLINE LESAGQTVVLVVRNDDVLGVI ALQDTLRADAATAISELNALGV KGVILTGDNPRAAAAIAAGELGL EFKAGLLPEDKVKAIVTELNQH APLAMVGDGINDAPAMKAAAI GIAMGSGTDVALETADAALTH NHLRGLVQMIELARATHANIRQ NITIALGLKGIFLVTLLGMTGL WLAVLADTGATVLFPPRLFEAR NSQVGNGETNQTRFRLCAAPG GTFIADFTAGTGRRARPRNR RVVVSFDHFQNMRRFLMEIVA ARFVVSKVAAHFRTFHYGGVIF ISRENVWIRGFESIFDHLEQRFR LLFTIDNPVGKFNFAAVLGVR LGKHIQFDVVRVTTKLCESILQI VNFIFRQSQAKTQVSVDQRLTA LPQQINAGNRSRLMVGKQLLCI
4902	35270	B	4943	1	2104	
4903	35271	C	4944	1	1215	
4904	35272	A	4945	3	268	YEFNRPYPEIQRSGISKLEPLL FAATSDSQLSKTEISSIKINSETV PVYQLRYNGNNALMFATYQD KMLVFSSTDMLFKDDQQDTEA
4905	35273	B	4946	1	1725	
4906	35274	A	4947	1	1437	
4907	35275	A	4948	2	736	QCPYPYIAATGRILVVTHLICLA PQIVENQVITYPLTTTMLSVPGA KTVRGFSQFGDSYVVYVIFEDGT DPYWARSRVLEYLNQVQGMLP AGVSAELGPDATGVGWIYEYA LVDRSGKHDLDLRLSLQDWIL KYELETIPCVSEVASVGGVVKE YQVVIDPQRLAQYGISLAEVKS ALDASNQEAGGS\SNELAEAEY MGGTCSAHGRALSRGVLWCRF SAIVRGPPRGMFCGAGAAPNLI
4908	35276	A	4949	531	632	
4909	35277	A	4950	532	609	

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4910	35278	A	4951	1	525	LGVEATAIGDFGK\AAEKLPPV\VELAQACAHAVMKSGIDLAVSYCMQVNHGFAQPLEFLLGGLDKVPVLLVFINGVATPLPGFQRT RMLGEAIGRFTSTPQYAGDTVN DEDISNTIRALFATGNFEDVRVL RDGELRKFPCTCESDDNFRPVTFSVNYVIRHDWVGIRRVVPENE
4911	35279	A	4952	1	2769	
4912	35280	A	4953	1	681	
4913	35281	A	4954	1	1230	
4914	35282	A	4955	1	774	MLRTSDRPPYQYPKRCIPLSVLEVLRCARRWSLRPYKQLARAYI/ERYRHDR\DIEREKRGRLNQEIRGLVEQTNASLLNENANKDSKAHERGDIHYHDLDYSPFFPMFNCMLIDLKGMLTQGFKMGNAIEPPKSISTATAVTAQIIGSVHIYGGTTINRIDEVLAPFVTASYNKH RKTAEWNIPDAAGYANSRTIK ECYDAFQSLEYEVNTLHTANVEGLTGDDGIAVEALKKNSQKPRMSASHNCELVSLRGRQYT
4915	35283	A	4956	1	1278	
4916	35284	A	4957	461	1002	SLSTKGYAAAKWCSTACAGS/T LLLIVLLWVFIPKGFPPGQDNGI IQGTLQAPQSISFANMAQLQRQ VADVILQDPAVQSLTSFVGVDG TNPSLNSARLQINLKPLDERDD RVQKVIARLHTAVDKVPGVDL FLQPTQDLTIDTQGSRTQYQFT LHATSLDALNTWVPQLMEKIQLPKLS
4917	35285	A	4958	1	291	MNPVDRPLLDIGLTRLEFLRISG KGLAIGLTIAPALLSLLGCKQED IDSGTVGLINTPKGVLTQRRAR CTGCHRCEISCTNFNDGSVGTF FSRJKPH
4918	35286	A	4959	1	306	MKNFEVLQPLQNSLSGLPLWV SERILQQINQLTHYEPVIGIMGK TGAGKSSLCNALFAGEVSPVSD VAGCTRDPLRFRLQIGEHFMTI VDL\PGVGESGVRD
4919	35287	A	4960	2666	2775	
4920	35288	A	4961	9	308	GDLDGSRHRAFLCHLPVELKTA LMFPVTLTRALMETAY/ATAVS A/NFRTESRGAAH/SRFDFFD/RDD ENWL/CHSLYLPESMSMTRRSV NMNPKLRPAFPKIRT
4921	35289	A	4962	1	1132	

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4922	35290	A	4963	1170	1352	RNLPDAAGQSCAGEIRLYRQQT QRSRLQRWLHLACFRRCNLHR RELDATA*QHVRSCRWR
4923	35291	A	4964	1	312	MRKLTALFVASTLALGAANLA HAADTTTAAPADAKPMMHHK GKFGPHQDMMFKDLNLTDQA KQQIREIMKG\QRDQMKRPPLE ERRAMHDIIASDTFDKVKAEA
4924	35292	A	4965	3	205	KDHIKGVLEAQNLSLSTQVSLFF *SFFG*NSNMRNLIQIYRSL/CTK AI*LMNFKRHKNLVINYLRSRS
4925	35293	A	4966	1	915	MTGVATARARGLRPLSVGQV PPFARLWKGVTVERHMLANI GTGSQHPGCGFQLINQNSVIVF AAGEVNGFTSGDVQCLKMRSG DMNDIQRRQRLPDGNKFGEIQ TTIREYYKHLIYANKLEDLEEM DKFLDTYTLPRLNQEEVESLNR PITGSEIEAVVNSLPTKKSPGPE RLTAEFYQRYKEELVPFLLKLF QTTEKEGLLPNSFYEASVLLIPK PGKDTTKKENFRPISLMNIDVKI LNKILANRIQQHIKKLIHNNQV GFIIGVQGWFNICKSTNVIYHV NRTNDKNHIIISIDTEKAFD
4926	35294	A	4967	1	1338	

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4927	35295	A	4968	1	1928	PPLVIHRQTGSGEDLQQTPTDL QLRVLTIRRKTNKQKGHPHQNP ISSRRHEITKIRAEKLETETQKTL QKKSMNPRSWFFERINKIDRLL ARLIKKREKNQIDAIKNDK\W DITHRIPTETI\REY\YKHLTY NKL\EN\LEEMDKFLDTY\TL\PAR LN\QEEVES\HRLITGSEIEAITN SL\T\TKSPGPDGF\TAEFYQRY KEELVPFLLKLFQSIEKEGILPNS FYEASIILISKPGRDTT\KKENFR PISLMNIDAKILNKILANQIQQHI KKLIHHHQQVGFIPGMQGWFNIL KSINVIHHINRTKDKNHMIIISIEA EKAFDKIQQPFMLKTLNKLIGID GTYLTYLKIIRAVYEKPTANIIL NGQKLEAFPLKTGTRQGCPLSP LLFNVVLAEVLVGAIQKEKEIKG IQLGKEDVKLSLFADDMIVYLE NPIVSAQNLLKLISNFSEVSGYK INVQKSQAFLYTNNRQTESQIM SELPFTIASKRIKYLGIQLTRDV KDLFKENYKPLLNEIKEDTNK WKNIPCSWIGRINIVKMAILPKT LNQKFSYWFRVNKHYYHQRTFP LKETEFNTIATLYNGASP/RTAP KSTGTNGHQASGLPRF*RIAFCS ALVKS\KRKLYQGYLPGQTD\RR EEGVSWCPGGP
4928	35296	A	4969	2	237	QPVEDTWLSTPAAPMVDSLIAR VRVMARGNAITLPVCGRDVK/F TLEVLRGDSVEKTSRVWSGIET YQELVTEDALDDL
4929	35297	A	4970	1	1752	
4930	35298	A	4971	1	723	
4931	35299	A	4972	1	1701	
4932	35300	A	4973	1	1446	
4933	35301	A	4974	1	403	MKLMETLNQCINAGHEMTKAI AIAQFNDDSPARKITRRWRIG EAADLVGVSSQAIRDAEKAGR LPHPDMEIRGRVEQRVGYTIEQI NHMRDVF\GTRLRRAEDVFPPI GVA\AHKG\ALKGLRVLLVEV RHRV
4934	35302	A	4975	1	1374	

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4935	35303	A	4976	1	2259	MKLMETLNQCINAGHEMTKAI AIAQFNDDSPARKITRRWRIG EAADLVGVSSQAIRDAEKAGR LPHPDMEIRGRVEQRVGYTIEQI NHMRDVFGTRLRRAEDVFPPI GVAAHKGGVYKTSVSVHLAQ DLAL/KGLRVLLVEVHKRWS*N DEGYRHCTV***\HPEARKITRR WRIGEAADLVGVSSQAIRDAEK AGRLPHPDMEIRGRVEQR\LVIQ LNKLIICVMCLVRDCDVLKTYF HR*SGLLPKVAFTKP/HVSVHL AQDLALKGLRVLLVEPPSAPN LGIGTINVVCAADVLIPTPAEL FDYTSALQFFDMLRDLLKNVD LKGFEVDVRIILLTKYSNSNGSQ SPWMEEQIRDAWGSMLKNV VRETDEVGKAAPMVDSLIRV GVMARGNAITLPVCGRDVKFT LEVLRGDSVEKTSRCDNLKTCH TSHGSVMAETAVINHKRKN PRIVQSNLDTEAAYSLSRDQKR MLYLFVDQIRKSDGTLQEHDI CEIHVAKYAEIFGLTSAEASKDI RQALKSFAGKEVVFYRPEEDA GDEKGYESFPWFIKRAHSPSRG LYSVHINPYLIPFFIGLQNRFTQF RLSETKEITNPYAMRLYESLCQ YHPLTIEKVMKPLITSNTVTDEI ERANVFKMNGKWYLFDTSRGS KMTIDGINSNDIYMLGYVSNLS TGPYKPLNKTGLVLQMGLDPN
4936	35304	B	4977	1	1744	
4937	35305	A	4978	1	2367	
4938	35306	A	4979	1	1215	
4939	35307	A	4980	1	946	MKLMETLNQCINAGHEMTKAI AIAQFNDDSPARKITRRWRIG EAADLVGVSSQAIRDAEKAGR LPHPDMEIRGRVEQRVGYTIEQI NHMRDVFGTRLRRAEDVFPPI GVAAHKGGVYKTSVSVHLAQ DLALKGLRVLLVEGNDPQGT SMYHGWVDPDLHIHAEDTLLPF YLGEKDDVTYAIKPTCWPLDI IPSCALHRIETELMGKFDEGKL PTDPHMLRLAIETVAHDYDVI VIDSAPNLGIGTINVVCAADVLI VPTPAELFDYTSALQFFDMLRD LLKNVDLKGQAPCMK\LTMR SSSAPSPWML
4940	35308	A	4981	1	1572	

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4941	35309	A	4982	1	1617	
4942	35310	A	4983	1	550	
4943	35311	A	4984	1	3818	
4944	35312	A	4985	607	3777	
4945	35313	A	4986	671	3091	ARCQRPVGRVPDLLRCLPRAT TPAPSPAPGLVVRRLAAPVPAA APVPAAPVPAAPVPAAPVPA AAPVPAAPVPAAPVPAAPVPA VPAAPVPAAPVPAAPVPAAPVPA AAPVPAAPVPAAPVPAAPVPAAP VPRFQSPNQASTSDSPHIGQLP HQTVPISDSFHTGQSPHRTDSTP DSPHTGQLPHRTVPTPD/ELPHR TVPTPDSFHTRQSPHQTASTPDS PHIGQLPHQTVPISDSFHTRQSP HQTASTQDSPHTGGIPHRTVPT PDSFHTRQSPYRTASTPDSPHIG QLAHRTVPTPDSFHTGQSPHRT DSTPDSPHTRQLPHQTVPISDSF HTGQSPYRTASTPDSPHTRQLP HQTASTPDSPHTRQSPHRTVPT PDSSPHQTVSTPDSPHTRQLPH QTVPTPDSFHTRQSPHQTVPPT DSPHTRQLPHQTASTPDSPTPD SPHTGQSPHQFPHTVPTADSP HTRQLPHQTVPPTADSPPTDSFH TRHSPHQTASTPDSPHIGQLPHR TVPTPDSFHTRQSPHQTASTPDT PHTRQLPQQTVPPTADSPPTDSF HTRQSPHQTVPPTDSPHTRQSP HRTVPTPDSFHTRQYPQRTVPT QTASTPGSPHTKQSPHQTVPPT DCPHTGQSPYQTVSTPDSPHTR HSPHQTASTPDSPHIGQLPHQT ASTLDSPHIGRHPRQMAPTPESP HARQLPCQMAPTPDSPTLDGPH
4946	35314	B	4987	1	891	
4947	35315	A	4988	157	1990	
4948	35316	B	4989	1	2157	
4949	35317	A	4990	1	378	MSIKGTYLKVIAIYDKPTASSI LNGENLKAFLLRGTGRQGCPLY KINVYKSVALLYTTNDQGENQI NNSTPYTTAPRKIKYIGIYLKE VKDLYKENYKTLLKEVIDDT/R WKHIPCSWMGRINIV
4950	35318	A	4991	1	392	

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4951	35319	A	4992	3	1570	ETDFAFVGQAGVQWCDLSSPQ PLPPWVQAILLPQPPRQGCWSG IPKWSGISEDVQVWKNCKLDL AAATGKNCLGQGEEALLTQMR TGNQREVSDWWEEFVYLRSRN PLMVNSNYMMDFLYVTPTPL QAARAGNAVHALLLYRHRLNR QEIPPVRGPQWVRDGGVVLWP LGHVGPGRQLTAHGFLQTLLM GMRPLCSAQYEKIFNTTRIPGV QKDYIRHLHDSQHVAVFHRGR FFRMGTHSRNSLLSPRALEQQF QRILDDPSPACPHEEHLAALTA APRGTTWAQVRTSLKTQAAEAL EAVEGAFFVSLDÄEPA\GLTL EDPAASLDAYAHALLAGRGHD RWFADK\SFLLIVFSNGKLGLSV EHSWADCPISGHMWEFTLATE CFQLGYSTDGHCKGHPDPTLPQ PQRLQWALPDHHSISLALRG AKILSENVDCHVVPFSLFGKSF RRCHLSLDSFIQIALQLAHFRDR GQFCLTYESAMTRLFLEGR TET VRSC TREACNFVRAMEDKKKT
4952	35320	A	4993	1	1027	MPAKSPGQDVLGTDNIKIDVFK QTNQKSHTGEKPYECPECGKAF SEKSRLRKHQRTHTGEKPYKC DGCDKAFSAKSGLRHQRTHTG EKPFECECGKSFNYKSILIVHQ RHTHTGEKPFECNECGKSFSHMS GLRNHRRHTHTGERPYKCDECG KAFKLKSGLRKHHRHTHTGEKP YKCNQCGKAFGQKSQLRGHH RIHSGEKPYKCNHCGEAFSQKS NLRVHHRTHTGEKPYQCEECG KTRQKSNLRG\HQRTHSGEKP YECNECGKAFSEKSVLRKHQR THTGEKPYNCNQCGEAFSQKS NLRVHQRTHTGEKPYKCDKCG RTFSQKSSSLREHQKAHPGD
4953	35321	A	4994	154	331	IPAAATCMGSLG*ETPGLWA RRSVKSRGLFPGLPSPSRASVRS LLLLPAWA AFLEGIVDTRPTAW RAFPWTLFLSVFCQFLDFPETS LSQKLSLDTPSF

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4954	35322	A	4995	657	1455	PEPKPAAVAPPPESPLPAGDSEG CLQPGHLL\PASPRLPRPRQAAS LAHRPEKSAPGADCPSGRR\GR PWTCGGLSGPAAAPRPCPLAPA FAPAFALGAQR\GPGPEQGGH ERQAERPGRRSRTRAYSARIY LPVAAEWPMGPGPEPGAGGRR RGEVPGPGAQRSPARRRRGGPA AVSSGGRGVGGLRGAVLFQHP EQQQRPVGLAGLGAQQPAHV WRYGPLST/PPALGPPAAARGP\ GRRLFLPFSFSPSAGAPGAASRP SPRRSP
4955	35323	A	4996	1	415	
4956	35324	B	4997	8	211	
4957	35325	A	4998	1	563	MDPNHEEIPDLPEKEFRRVKSK NHMTISIDA EKAFDNIQHRFMI KTLISKIGIQGTHFNIIKAIYDKP TASIILNGENLKAFLRTGTSIVL EVLARAIRREKEIKGIGIQKEEV KLLLFADDMIVYLENPKDSYRK LLEQIKEFSKVSRYKINVQKSIA LLYANSDAQENQINNPTSFTIA AKNKIK
4958	35326	A	4999	667	960	
4959	35327	A	5000	317	1157	EFRMDPAIALVLALSLTPKLT VPDSPLRLYRSFCTSACTSNLV VHFA*KEKWPDV*LYTDSWAV ANGLAGWSGTWKKHDKIDD NEIWGRGMWIDLSEWSKTVKIF VSHESAHHIT*KSSAEEDFNNQ VDRMIHSVDTTPLSPATPVITQ WAHEQSGHGDRDGGYAWAQQ HGLPLTKADLAMVTAECPICQQ QRPTLSP*YGTIPRGDQPATWW QVDYIGPLSSWKGRFVLTGID/ TSGYEFAYPARSSANSTIRGLM ECLIIHHGIPHISIANQLYS
4960	35328	A	5001	2	15246	

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4961	35329	A	5002	1	951	MALALNRYL/CLAVLPLITKCA PLFAG/TEHRAIMVDSMLHTVY R/LSRGRSLTKAQRDVIED/CLM SLCARLLRRLVFDVPILNEFA/K MPLKLLTNHYERCWKY/YCLPT GWANFGVTSEEE/LHLTRKLFW GIFDSL AH/KKY/DP ELYRMAM PCLCAIAG/ALPPDYVDASYSSK AE/KKATVDAEGNFDPRPVET/L NV/IIPEKLDSFINKFAEYT/HEK WAFDK/DKEIYRWPIKESLKAM I/AWEWTIEKAREDLDPREGYN PQPPDL SAV/TLSRELQAMAEQ LAENYHN/TWGRKKKKQELEAK GGGTHPLLVP/YDTLTAKEKAR DREKAQSY
4962	35330	A	5003	273	478	
4963	35331	A	5004	2	622	GAPRSLSEKERQLMGMINQLSS FREQLLHAHYEQKKAASQIEK QRQHMKLGKQ/QQEQIARQQQ RLIQQQHKINLLQQQIQQLYAA QLAAMQVSPGGKLPQIPQGNL GAAVSPTSHTDKSTNSPPPKSK TCCLLLWEDEHSASIEVTNQQI HLHLASSITDHGGKVIWERCLE ESGKGVTFPDPSPRWGRIPPE GSKEGFTKE
4964	35332	A	5005	3	512	
4965	35333	A	5006	1	642	MHAQTYAHTDTRAQPCTSM EK QVSLKPTEEAHKKERKPQKPG KYICQYCSRPC/AKPSVLQKHIR SHTGYG/CEMPHGLEM ERIPG EEFEPTEGESTDSEEE TSATSG HPAELSPRPKQPLLSSGLYSSGS HSSSHERCSLSQSSTAQSLEDPP PFVEPSSEHPLSHKPEDTHTIKQ KLALRLSERKKHQVIDRLGSGI LAGLSWQLLPQGEAL
4966	35334	A	5007	341	1020	TLNRRQG CCLGSWLTRSN GILL FEISRPTYLPILLILFLVKR/HKL KMSVLNMVVRHDPGSTESAKA KEELIFRCRSRHFASPLFSQHA AADKHKFQRFLTADMALAVTV YAPTTFPSSLLLFKQKSNGMH NLIATGHLLLVDPNRMVIRVV LSDPPFKICTKMAVVCYMFNR EDVQWFKPVELRTKWSRRGHI QEPSGTHGRMKCSFDRKLKSQ NTELMNLYK

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4967	35335	A	5008	1	847	EKAQALEDLAGFKDPAPGHT ESMTHDKTTKIPCKSPPELVDT ATSSKKWPRACGQKVEVKEEL LAVGKLTQTSGETTHTNKEPEG EGKGMKAFKQPAKQKLDPEN TGSRRRLPRVPKEKAQPLEDLAS FQELSQTTPGHTEELANGADSFT SAPKQAPDSGKPLKISRRVLQA PKVEPVGDVVGTR/D/PVKSQSK SNTSLPPLPFKRGGCKDGSVTG TKRPHCMPAPEEIIIEELPASKKQ R/VVAPRVRGKSPEPLVIMKRSL RTSAKRIEPAEDLNSNMKTNN
4968	35336	A	5009	9	1094	IRHEESMTDDKTTIIPCKSSPEL EDTATSSKRRPRTRAQKVEVKE ELLAVGKLTQTSGESTHTDKEP VGEGK\GTAKFKQPAKRKLDA EDVIGSRRQPRAPKEKAQPLED LASFQELSQTTPGHTEELANGAA DSFTSAPKQTPDSGKPLKISRRV LRAPKVEPVGDVVSTRDPVKS QSKSNTSLPPLPFKRGGGKDGS VTGT\KRLRCMPAPEEIVEELPT SKKQRV\APRARGKSSEPVVIM K\RS\RTSAKRIEPAEELNSND MKTNKEEHKLQDSVPENKGISL RSRRQNKTEAEQQITEVFVLA RIEINRNEKKPMKTSPEMDIQNP DDGARKPIPRDKVTENKRCLRS ARQNESSQP
4969	35337	A	5010	1	459	MAKPWRALCILLRSLDSFLQLS ASLTCFGFMHNTYKNRPWGV RSSTERSPRKG TAGDMRAGGRF NAPLIGQDLLFKEHFASKALDT CTNIARSAKTQGGPVAAILL AFGPCIFNLRVKFVSSRIKAIKL QM/RLTIYRGPLDRPAGPSTGL
4970	35338	B	5011	1	687	
4971	35339	C	5012	194	418	
4972	35340	A	5013	17	396	
4973	35341	A	5014	1	70	

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4974	35342	A	5015	1	994	MGFVKVVKNKAYFKRYQVKF RRRREGKTDYYARKRLVIQDK NKYNTPKYRMIVRVNTRDIIICQ IAYARIEGIMIVCAAYAPELPK\ YGVKIVGLTNYAAA\YCTGLLA GPAGFFHRFGMDKFYEG\QVEV TGDEYNVESIDGQPGCLHPAY WDARPLPRTSPLAIKVFWLP*R GA\VDGGLVLFPPQYPNRF PWL WIPESQGNLNARRYHREGTIHG PRIVAGLHAPTLMEEDEDA\YK KQFVRQYVKNS\VTPDIMMEE MYKKAHAAIR\ENPVYEKKPK KEV\KRKRWNR\PKMSLAQKK DRVAQKKASPL\RAQERAAEKL NQTIFYKDFSDIAN
4975	35343	C	5016	27	308	
4976	35344	C	5017	68	307	
4977	35345	A	5018	388	1485	
4978	35346	A	5019	3	1940	RDRMILLKMEQEIIDFIADNNN HYKKFPQMSSYQRMVHRVA AYFGLDHNVDQTGKSVIINKTS STRIPEQRFCEHLKDEKGEESQ KRFILKRDNSSIDKEDNQSVCS QESLFVENSRLLEDNICNETYK KRQLFRGNRDGSGRTSGSRQSS SENELKWSDHQRAWSSTDSDS SNRNLKPAMTKTASFGGITVLT RGDSTSSTRSTGKLSKAGSESSS SAGSSGSLSRTHPPLQSTPLVAG VAAGSPGCVPIYPENGIGGQVA PSSTSYILLPLEAATGIPPGSILL NPHTGQPFVNPDGTPAIYNPPTS QQPLRSAMVGQSQQQPPQQQP SPQPQQVQPPQPMAGPLVT QSIPAKKELNAFRVRNQEQRDT GTLHEGSGKISRMVLGWEPLSP YAPDRDDVATQFGQMTLSRQS SGETPEPPSGPVYPSSLMPQPAQ QPSYVIASTGQQLPTGGFSGSGP PISQQVLQPPSPQGFVQQPPPA QMPVYYYYPSGQYPTSTTQQYR PMAVQYNAQRSQQMPQAAQ QAVLEVLSPLVSTVMPPKLAVL VMAGFRLRLELSESVLLQALW WSDHLSSFSELLCRLPDVLPES LLPLEYDHQKDAQGQDYLTCTM VLVTLLESPTGIQEDDSNEISVI

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4979	35347	A	5020	3	1353	GDAYALVLRVTLYCGKCH\NE VVLAPIFEILSTESIQDQLPYSV MLMSMLAITEGRRSFSVSVENA CSNYVTTVQVKEVNQMHSNP SCNAIHPRDHILEISGTPHTLQ VEELEDASQMSQTLLEHDP VSRSPAQLRLDAWLSPTQNA GHPHALSTLDTKDNLEGLRRC SLRLSNSISKSPSPSPKEPLLS RDISCWESLCCSSTYSKQNFRC DLIHGEVLGKGGFGQAIKVTHK ATGKVLVMKELMRCDEENQK TFLTEVKVTLPSNLLPPGHDLL QTGAREQTGILKTGGLSVPGGA GHPAACRAGGVGPHCEHAVRP DPRLTPLALAQPAGGCSTASIA PLFSIPAVSRVFRASRGLAACLE AEQAGRTILTCEVCKLVVGLSL DSQQQLSSVLCGWLCLSCPQL WSLNRHPQHQHHLVEMQNLKS HPRPGETESAL
4980	35348	A	5021	1	588	MEYPDGGSTLDLLEPGPLDETQ IITILREILKGLDYHSEKKIHRG VKAANVLLSEHCEVKLVDFGM AGQLADTQTKRNTFVGTPFWI APENNPPTLEENYSKPLKEFVE ACLNKELSRPTAKELLKHKFIL RDTKKTSYLTELIDRYKRWRA KQSQEDSSSEDSNSETDGQDSIG GSDSGDWIFTIQEKDPKNL
4981	35349	A	5022	1	1380	GPRASPPRADRRGPAVPSQEVA VLSAMAHSPVQSGLPQMNLK ADPEELFTKLEKIGKGSFGEVF KGIDNRTQKVVAIKIIDLEEAED EIEDIQQEITVLSQCDSFYVTKY YGSYLKDTKLWIIMEYLGGS ALDLEPGPLDETQIATILREILK GLDYHSEKKIHRDIKAANVLL SEHGEVKLADFGVAGQLTDTQI KRNTFVGTPFWMV\PEVIKQAG YDSKADIWSLGITAIELARGEPP HSELHPMKVFLIPKNNPPTLE GNYSKPLKEFVEACLNKEPSFIP TAKELLKHKFILRNAK\KTSYLT ELIDRYK\RWKAEQSHDDSSSE DSDAE\TDGQASGGSDSGDWIF TIREKDPKNLENGALQPSDLDR NKMKDIPKRPFSQWLSTIISPLF AELKEKSQACGGELGGPLKEL RGAIYLAEEACPGISDTMVAQL VQRLQRYSLSGGTSSH

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
4982	35350	A	5023	1	346	MAGEKVEKPDTKEKKPEAKKA DAGGKVQEGTGRYSRSAMYSR KAMYKRKYSAAKSKIEKKKEK VLATVTKPVGGDKNGGTQVFI QIITYSSYTQKVQLPKSTLKQRQ GPCPQGAL
4983	35351	A	5024	67	599	SAAKSEMAGEKVEKPDTKEKK PEAKKVDAGGKVKKGNLAK KPKKGKPHCSRNPVLRGIGRY SRSAMYSRKAMYK\RKYSAAK SKVEKKKKEKVLRLNLLQNQVG GDKN\GGTR/VGLNFRKMPRIY PTEDVPRKLLSHGQKNPFSQH V/REKLASITPGTIL\ILTGRHR GKRVVFLN
4984	35352	A	5025	101	202	PVPGTSSCTDRYHYKKH**KIN TKLVSKYILNM
4985	35353	A	5026	2	562	LRTVPDLPGRRFRAMRTGQRR* PELPPDMNSLEQAEDLKAFERR LTEYIHCLQPATGRWRMLLIVV SVCTATGAWNWLIDPETQKVS FFTSLWNHPFFTISCITLIGLFFA GIHKRVVAPSIIAARCRTVLAEY NMSCDDTGKLILKPRPHVQ*QS SLIVMGLRIAFLRISDTAKSHKG FLLRLDM

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4986	35354	A	5027	1	2090	MGAVFFMLFSWWITSGHIQLLC TRRRATVSTHQEFVTVSPFSL GLVVSGLDADTAMPGSAEEQ FQWQSQDGGQKDIEDELTTGLEL VDSCIRSLQESGILDPQDYSTGE RVIHFGKTLGLSSEDYSIMEKG QMVKEVTVPQVSVLKANETM ASALCGQEGHDDPLLLTVQMS TGNHYIKDNSLFPWVKWPSLLS QSALQLNSKPEGSFQYPASYHS NQTALGETTPSQLPARGTQAR ATGQSFSQGTTSRAGHLAGPEP APPPPPPPREPFAPSLGSAFHLPD APPAAAAAALYYSSSTLPAPPR GGSPLAAPQGGSPTKLQRGGSA PEGATYAAPRGSSPKQSPSRLA KSYSTSSPINIVVSSAGLSPIRV SPPTVQSTISSSPIHQLSSTIGTY ATLSPTKRLVHASEQYSKHSQE LYATATLQRPGLAAGSRASYS SQHGHLGPELRALQSPEHHIDPI YEDRVYQKPPMRSLSQSQGD LPPAHTGTYRTSTAPSSPGVDS VPLQRTGSQHGPQNAAAATFQ RASYAAGPASNYADPYRQLQY CPSVESPYSKSGPALPPEGTAR SPSIDSIQKDPSKYPILCDGGNPF CALVYRPSSRERASSL/LKSMCY Q*NRLYPKFRRVLGSGFEGMQ RRFCASKGIKGRFCSSLEQDC EHGGQHPCYPKLVPTLWNP HQ REGNQKN SERV
4987	35355	A	5028	123	3825	
4988	35356	A	5029	1	593	MQVCSSGGRILRVSGTERQLRR EGGRFCLGRGVRNLREGGALR APFTAPSLTALPPDIVDIKPAN MEDLTEVTTASESHPHHCNLFV YSSSKGFLRLCDMRAAALCDK HSKHPCDDIGPIQIIGHLRTSR GWMILPALQSTFRCRMDEQNL RAFLAPRLCDFSTSQPQPGSPEQ PVMSGLISPWTKPSRSSVFSM
4989	35357	A	5030	1	894	

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4990	35358	A	5031	1	3115	RQICSMASELGARDDGGCTELA KPLYLQYLERALRLDHFRLRQTS AIFNRNISSDDSEDGLDDSNPLL PQSGDPLIQVKEEPPNSLLGETS GAGSSGMLNTYSLNGVLQSES KCDKGNLYNFSKLLKSRKWLK SILLSDESSEADSQSEDDDEEEL NLSREELHNMLRLHKKYKLLHQ NKYSKDKELQQYQYYAGLLS TYDPFYEQRHLLGPKKKKFK EEKKLKAKLKKVKKKRRRDEE LSSEESPRRHHHQTQKV
4991	35359	A	5032	1	1522	MVAQASGQTIREAEVGGSLTA QEVEATSILLSDESSEADSQSED DDEEELNLSREELHNMLRLHK YKKLHQNKYSKDKWMSQLA ALNYLAGGDEQKLLDLSYSP QNRQPAMAKAHNNNNNNNN NNNNHNKNPKRLLDERELTY STATQSFDRNTRSFDEDAKES RAAALRAANKSGTGFGESYSL ANPSIRAGEDIPQTIFNGKLKG YQLKGMNWLANLYEQRRLRL RFLQLEQEHTCPQEGRAERLRG QPLKLWALLHFIMPTLFDSHEE FNEWFSKDIESHAENKSAIDET KLKKVKKKRRRDEELSSEESPR RHHHQTQVFAKFSHDAPPPGT KKKHLSIEQLNARRRKVWLSIV KKELPKKTLYTQDAPFHVVITS NQLVVQDVKYFQRVKWQYMV LDEAQAALKSSSLTRSNAARYPL VSSQRKIHDQQVTTDKSSKMDP KEEEYIPAKHEMENTKLQFYLS AIGEKQVRWKILLQFQCRNRL LLTGTPIQNTMAE
4992	35360	A	5033	1	974	MGFHHVARAGLELLTSGMCCY FAQDLRPEQSIKASLQRIILRY EKCGHHNLQKKGYKSVDYK VHKGSYNGFNQCLTTTQSKIFQ CDKYVKDFHKFSNSNRHMTEK NPFKCKECCGSFCVLSHLTQHK RIHTTVNSYKLEECGKAFNVSS TLSQHMRIHTGQKHYYCGEM GIAFNKSSHLNTHKIIHTGEKSY KREECGKAFNISSHLTTHKIIHT GENAYKCKECCGKAFNQSSLT RHKIIHAGEKPYICEHCGRFV QSSNLTKHKRIHTGDKPYKCEE CGKAFNVSSLTQHKRIQQQQQ QTIKQTKNLLNNNNKKLWV

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4993	35361	B	5034	22	684	
4994	35362	A	5035	1	1338	
4995	35363	A	5036	1	596	MGMTDMGKSKKKSQGPSFPP GGAPPPAIGAPAGRERPPGTGD PFNQRPCDNLKTCHTSHGSVM AETA VINHKKRKNSPRIVQSND LTEAAYSLSRDQKRMLYLFDV QIRKSDGTLQEHDGICEIHVAK YAEIFGLTSAEASKDIRQALKSF AGKEVVFYRPGEDAGHEKGYE SFPW/FIKRSPE*RRGKFPTQM GQD
4996	35364	A	5037	787	1692	
4997	35365	A	5038	289	1338	
4998	35366	A	5039	982	1347	
4999	35367	A	5040	1	780	
5000	35368	B	5041	148	334	
5001	35369	A	5042	2	545	
5002	35370	A	5043	1	732	
5003	35371	A	5044	1	1110	
5004	35372	A	5045	1	1170	
5005	35373	A	5046	1	870	
5006	35374	A	5047	1	1254	
5007	35375	A	5048	614	1236	TARVAAARRRCQCWGSACGS ALTLPRSSSLTLTETPIVQQTRM VVRCPASLPSQWRSCPSSTWA VPKTPPTWTCWRNSAILSL/VVF IRDKLMERRNRRTGRTEKARIW EVTDRTVRTWIGEAVAAAAAD GVTFSPVPTPHTFRHSYAMHM LYAGIPLKVLQSLMGHKSISSTE VYTKVFALDVAARHRVQFAMP ESDAVAMLKQLS
5008	35376	B	5049	1	1281	
5009	35377	A	5050	2	893	
5010	35378	A	5051	1	1416	
5011	35379	B	5052	49	768	
5012	35380	A	5053	1	792	
5013	35381	C	5054	1	1461	
5014	35382	A	5055	887	1203	RPEKAR/IWGVTDRTVVRTWIGR AVAAAAADGVTFSPVPPHTF RHSYAMHMLYAGIPLKVLQSL MGHKSISSTEYVYTKVFALDVA RHRVQFAMPESDAVAMLKQLS

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5015	35383	A	5056	740	1431	CCQTLPVFHPHPSHLGPRPCPP TH/HLPSEHRSLEAACHDSDS LEPLNLSSGSKTKSPSLPPKAKK PKGLEISA/RPAGALRHRRLHR PQQSPPLGIPHSLL\TAQVFIR DKLMERRNRRTGRTEKARIWE VTDRTVRTWIGEAVAAAAADG VTFSPVTPHTFRHSYAMHML YAGIPLKVLQSLMGHKSISSTE VYTKVFALDVAARHRVQFAMP ESDAVAMLKQLS
5016	35384	A	5057	1040	1477	
5017	35385	A	5058	1	1422	
5018	35386	B	5059	1	1404	
5019	35387	A	5060	353	870	AWSSPRSRCPLHSRTPSLPRVEG QAHIGPGL/HRYQQGHQDLFIL RSDLPSQVFIRDKLMERRNRRT GRTEKARIWEVTDRTVRTWIGE AVAAAAADGVTFSVPVTPHTF RHSYAMHMLYAGIPLKVLQSL MGHKSISSTEYTKVFALDVAAR HRVQFAMPESDAVAMLKQLS
5020	35388	B	5061	1	1612	
5021	35389	A	5062	2	429	WGHWASPRLWWAWGSPGPAG LKPPGTVAASTGFSQWLLYIETI SRTPVELELKNSKVRKDVLS/R GPHSLYLVDQAQLEHAMEIAK VSVQALQAYRAPPRMEQANP KTPPDANLYKKGPSPPRRANT TRLGSRATKTIHPDS
5022	35390	A	5063	508	1007	PPLAQKQAVASQSHSPCGGFHR RWFRMRLTGEIMKIITCFKLVP EEQDIVVTPEYTLNFDNADAKI SQFDLNAIEAVASQLATDDDEIA ALTVGGISLLQNSKVRKDVLSR GPHSLYLVDQAQLEHALPLDT AKALAAAIEKIGFDLLIWTSSRI QAVALASPLSNT

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5023	35391	A	5064	1	1670	MNIEFFDPPRIVSGLTLNRINIQH PFHLTGIRYCIDERQRTVNDVL QAHAGRVLQQYLPAPATATFR CQSRNRTEPNQFLVCQWAGED QITQLLQEQWRVLIVMIFRTHN HMAGPRRWFRMRLTGEIMKIIT CFKLVPEEQDIVVTPEYTLNFD NADAKISQFDLNAIEAASQLAT DDDEIAA\LTVGGSLLQNSKVR KDVLSRGPHSLYLVDQAQLEH ALPLDTAKALAAALEKIGFDLL IFVKGTCVLVLLVAFGLVTTHFQ PCLFGVQNGEQETVQILLVGVV GGMERAERIIIPFTLAINNQPTT RLTKTIAQGMPIIQRNIPNPRIS LQPAPTPRHSANPATMQPHAQ ATPTPKPHTRTYPTRPPHPQRSA TPGTQRTPTPGPQTARDRAPKP DHTRPQTAHTAHHTSNDPQQR HRTRQRHTNKQHPHPAPPRLPT LPQNNKRQKPAESDTRKHHTP HMRQPTAHAETTARNTQAAQH CHTQNTPQANRHATGDRPEHH QARDTRIDPKPNPDPRITITGHT KGTTYAHKHTPLATHHMTTRPT TGH RHGTHH
5024	35392	A	5065	548	924	GLLRPRFSVNSPHFNTWLLSAN SINWR*YGFMPSSLILL*LNPM GRYSGASLVSRMASTTLPGHS IAMRQPVCGIFALTRAISI/AM WDFHVEDFMPERMALNLVLNS AI*LPKIFPARWMKFS
5025	35393	A	5066	33	424	CRFDESWCDAHAIFVAPTLY AYDFYADKTLVPLTDALANTW QKQFPLDYGKGRLWGSVAFVI GSALTGKLVMTFDYRVILALLT LGVASMLLGLIRPTIQPGASL QQUESTGWSAWLALVRQNWRF LA
5026	35394	B	5067	1	265	
5027	35395	A	5068	142	609	CLFRQVSAPHITRVCITRSAATI QTIDLNNLDTGD*LQPAFPPVW LISPGPFHPTPSVTRVPLEKEIRT FAQRLSVLHGINAPEFFDKPLFS SLVLTLRDEGYISDSGDAEPAE TMKVYQLQTNIVIIHKCFKAGF TLAVGNQFLINKQRASHQN

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5028	35396	A	5069	983	1387	LVWKVIPWRPAWKITLCVLNS CRRACLFAPAT*TANRLQAVC/ WLQSANPSINRGTLKESRTVA QRLSVLHGINAPEFFDKAVFSSL VLTLRDEGYISDSGDAEPAETM KVYQLLAELITSDVRLTIESATQ GEG
5029	35397	A	5070	1	1815	
5030	35398	C	5071	1	354	
5031	35399	A	5072	1	678	MTDKQQGEKQKQKTEDKTKT KQKQRKNKTDKRRKTKTERNT QRTPERQTNTNQTRTKQ/RRPD TGVTQADTRQDTSARRLMRQP RSAAAWMAALRGARDPKLITM VPHSKISRSIVRKGLPMTETQRR TETSKNYRPREQQTRNRQQQD PRQQRTVQTHQQEERRETKDN NTHTKPHETLARRHRRHNIHAL AAADLVIEAASEVWKSCKRSL HSWRKFAPTNAIDH
5032	35400	A	5073	93	729	SADPRNRDTRAAKFTRDAGK TDC*NL*THIETPDGDRYSRAG SCGPG/PLKRRLNVWKSCKRSL HSWRKFARHKRY*PLTLRQSLY TAIAAEIKNPERVAGLHFFNPAP VMKLVEVVSGLATAAEVVEQL CELTLSWGKQPVRCHSTPGFIV NRVARPYSEAWRALEEQVAA PEVIDAALRDGAGFPMGPLELT GPDWAGPPFCCHLFGV
5033	35401	A	5074	145	1038	SILRLRQKRKQLTAYDFADNCD KALY*RNHRLIREILALVCAHD RQKK/YLPSLAGFL*LNKNEINRL SVRGW/SRRRSFSVR*/PFTNTD RARSHFYQFVIIDELQSLFQSHA DRRNQNNGFVSTGSTHVQGFL TGQAVYSQVVRAAMNTDNLTF VNFCTVTEEQLTAILQTEQRER DRFTLTVRDQYAVLTLTHFTRT YVVVVAEGGVQQTSTGSHGHE LRTEANQTTAWDHVVETAAAF TVWIHFVQVALTFAQLHYRT LMLFFNVQSHVFIRLLFTTVDF EDNFRGTGYRQFETFTTH

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5034	35402	A	5075	39	4329	YAPATFSAATQPTPKINNVP RNSAMHWQTRIQAQANGYWL EREQWLAVGEQWFWRMESG PHRAAAGRLCHHHGNDATWH RG*FHLCFRPCV**RIEQPEGY AIIMETTPPGTG VNFIFVSDPAF DKGYAFDFC LEPMSHAPDDH HRPEGGLIALAPGESTTSEMS LRVPVANCAVTASLDSYYGE AMAIGERAPVALLDFAASARL AVGEALTNIAATQIGDIKRIKLS ANWMAAAGHPGEDAGLYEA
5035	35403	A	5076	1	625	MRASGTDEAVVLVPPIRMTLEQ ALEFIDDELVEGAAAAFEALE MMGSGRDREINRYGEGSPWFDI VLP CGG GITLTLHKLRLSAQPLL VAVLNRLQKKPVGLRYDPQAA SLVCLPTQTRTGWNLNGFEASI THRALRTSRYDGQYYCQGPRT LTIRRTVIMTGSSDPHDTTDSNN DRVLGPSRYDGQYYCQGPRTL TIRRTVIMTGS
5036	35404	A	5077	3	516	ATLSCEVVLENLAASPVVTTLE YTFLDGERV VHSSAIDHLAIEK LTSASLAFTVEQPQQWSAESPY LYHLVMTLKDANGNVLEVVPQ RVGFRDIKVRDGLFWNNRYV MLHGVNRHDNDHRKRRGVGM DRVEKDLQMKQHNINSVRNA HYRKRRNKEVRTKKKIESIEEK
5037	35405	A	5078	3	678	ASYCYTRNDLELVAVCD SRLS QRQALAEKYGNASVWDDPQA MLLAVKPDVVSVCSPNRFHYE HTLMALEAGCHVIQAREM/CD TARKLGKVLAYDFHHRFALDT QQLREQVTNGVLGEIYVTTAR ALRRCGVPGWGVFTNKELQGG GPLIDIGIHMLDAA MYVLGFPR /SVEDSLCGTIELHSGCILWLETS FALNIREHAIMNIRFCGDKAGA SVFPAHIYTATQR
5038	35406	A	5079	2	294	YSFMV/PIFGGRRWTVFSTAIL/I PCVWLGIAVQNPNTP/PFGIFIVIA LLCGFAGAN/FASSMGNISFFFP KAKQGA/PVFAF/LGVNVPQA DGSVMSLAMPH
5039	35407	A	5080	1	834	
5040	35408	A	5081	2	135	QYASALVSTAIALLLV\CLAFLY PAAN\SEIHL\GVLSIFWGD PDG

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5041	35409	A	5082	1	324	MQGGYNIHPLIDALDDAKLAPI AAKALSHTLLMFDNFYDVEEK AKRGNEYA\QVMQSWAD/AEW FLNRPALAEKLTVTVFVKVTGET NTDDLSPAPDAWSRPDIPLHAL GC
5042	35410	A	5083	1	866	MGLAQAKLLIEAPVNGGRNYN GPKVAKFLVGGASLNDVYLHQ HDKYRYDRYHLIRNREKTH\IM PEWVTQNI MNGRGVNRLLDDVN RPKSPEIKNDIRLFRQELRDAAY HFQGDADNDQLSVTPLVGLGK SSLLIK\TIFHRMRWAEQNLSICS SSFNRPAIFVRNIIQLLREGKKV EITVGDKEHENDFYIPEDEPFKIIG ALPYLYEINLRRFLSRLQYYVN TDQLVVRVWKEDDN\TYHLAK GWWGDDKWMVITG\NKLDPR AWRLDLENAILHDPQLELAPQ REKELE
5043	35411	A	5084	1	3483	VMFFFLPGLLMASWATRTPAIR DILSVSIAEMGGVLFGLSIGSMS GIL/SLGVVSETLWDT*C/HSWS RCPAH*SG**Y*/VLALWLTSPL LFAVGLGVFGASFGSAEVAINV EGAAGEREMNKTGLPMMHGF YSLGTLAGAGVGMALTAFGVP ATVHILLAALVAQIAAWYKAL QEQIPDFIPRAPQRQMIADVAK TLAGEEGRHLAIEAPTGVGKTL SYLIPGIAIAREEQKTLVVSTAN VALQDQIYSKDLP
5044	35412	A	5085	1	848	MLVGKVVVSEGASFRTHGAVD TSKAYVSLENSGWTIIADITTTN QNTLLNLANLAMSDANVIMMD EPVTRSSVTASAENFILTNTL SGNGNFYMRTDMANHQS DQL NVTGQATAGDSLTLVTTGGGD AAFTLGNAGR VFDIGTYEYTLL DNGNHSWSLAENRAQITPSTTD VLNMAAAQPLVFDAELDTVRE RLIGSVKGVSYDTAMWSSAINT RNNVTTDAGLRAQAIKTVHHR QNRLIHFSLNGSTFNVYRHFR TKTCPKDAETNGKEQGRCQPE CQT
5045	35413	B	5086	75	1777	

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5046	35414	A	5087	1	860	MKAPGLPADQQFFADLFSGLV LNPQLLGRVWFASQPASLPVGS LCIDFPRLDIVLRGEYGNLLEAK QQLRVEGEMLFIPARAANLPVN NKPVMLLSLVFAPTWLGLSFY DSRTTSLHPARQIQLPSLQRG EGEAMLSALTLSRSPLEQNIQ PLVLSLLHLCGSVVNMPPGNSQ PRGDFLYHSICTWVQDNYAQP LTRESVAQFFNITPNHLSKLFAQ HGTMRFIEYVRVWRMAKARMI LQKYHLSIHEVAQRCGFPDSDY FCRVFRRQFGLTPGEYSARFQG
5047	35415	C	5088	86	601	
5048	35416	A	5089	1	870	
5049	35417	A	5090	305	625	VAPGDRHAFPLAPSGLSPELTLP QTQCCAQATVQGLEGTRWSQ SGTSSLSPWSHTSLRRRRKEEG EEEEEEEEEEEEEEEEEEEEEEEE EEEEEEEEEEEEEEEE/EEEEEEEE EEEEEEEEEEEEEEEEEEEEEEEE EEEEEEEEAKTQ
5050	35418	B	5091	1	552	
5051	35419	A	5092	2810	3117	LTLNSHMAPALIPILAMSAPMT PMKN/LSQVHAQGLVIRDLPLIA SNFRNTEDLSSYLKRHNIVAIA DIDTRKHAACAVPNTLVARGL RKHLKRVAAPQHWIAG

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5052	35420	A	5093	2	1902	LKYPMKRVGKRGEGKFERISW DEALDTISDNLRRLKDYGNEA VHVLYGTGVDGGNITNSNVPY RLMNSCGGFLSRYGSYSTAQIS AAMSYMFGANDGNSPDDIANT KLVVMFNNPAETRMSSGGGV YYVEQARERSNARMIVIDPRYN DTAAGREDEWLPIRPGTDGAL ACAIAWVLITENMVDQPFLLDK YCVGYDEKTLPANAPRNAHYK AYILGEGPDGIAKTPEWAAKIT SIPAEKIIQLAREIGSAKPAYICQ GWGPQRHSNGEQTSRAIAMLS VLTGNVINGGNSGVREGATG SAVGEEVFNTSMTGYQEILTD\
5053	35421	A	5094	8	456	LPI\PSNRYSSYP\ILAMSAPMT MKN/LSQVHAQGLVIRDLPLIAS \NFRNTEDLSSYLKRHNIVAIA\ DIDTRKLTRLLREKGAQNGCIA GDNPDAAALALEKARAFPLNG MDLAKEVTTAEAYSWTQGSW TLTGGLPEAKKEDELPHFVVAY DFGAKRNILRMLVDRGCRLTIV PAQTS AEDVLKMNPDGIFLSNG PGDPAPCDYAITAIQKFLETDP VFGICLGHQLLALASDVEKNVV MITAQNHGFAVDEATLPANLR VTHKS\LFDRYVTGHSSHRT*TG\ FSFQRHPEASPGPHDA\APLFD
5054	35422	A	5095	377	1228	KQARGRLCPAKPQGWSCPRPW QPTFC/GQCDLKVRPGVIGDHF GALKFDCPTGFRTCLGRITPLFL PSSPIWNGCIPFIPVPGGDCGEG VQIRSLSCMVHSGSISHAAGRV EDALCGEMPFQDSILKQLCSVP CPGDCHLTEWSEWSTCELTCD GRSFETVGRQSRRTFIIQS FEN QDSCPQQVLETRPCTGGCSPQA RPAAIRQCIPACRKPF SYCTQGG VCGCEKGYTEIMKSNGFLDYC MKVPGSEDKKADVKNLSGKNR PVNSKIHDIFKGWSLQPLDP
5055	35423	A	5096	1	519	

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5056	35424	A	5097	1	743	MCPAIDAVLVYVNRKWTNLS DMPVVGQMGTVKYVLMSAPATT ASYIQLDFSPVVQQQKGKTIKL ADAGEALTFP/RGVMPKA/PPQL LVPATFLSAELALLQKSFHVNI QDTMIGELPPQTTKTLARFIPEV AVAYPKSKPLTTQIKIKKPPKV AMKTGKSLHLHSTLEMFAAR WRRKAPMSLFLLEEHFNKGGQ HSLHENQLQMATS�DRRGNYT GFITSYLEEAYIPVVDVLQVG LPLPDFLAMNY
5057	35425	A	5098	2327	3435	KTTTLEDNLGNTIQDIGPGKDF MMKIPKANATKIKIDEWDLIKL KSFCTAKATTKRVNKQDESLRS HYE*WGMLTDCVVMRDPNTK RSRGCGFVTYATVEEVDAATN ARPHKVDGKVVEPKRTVSRED SQRPGAHLTVKKIFVGGIKEDT EGFAFVTFDDHDSVDKIVIPKY HTVNGHNCEVRKALSKQEMAS ASSSQRGRSGRGGGFGGNENFG CGGNFSGHGGFGGSHDGGGYG GSGDGYNGFGNDGGYPGGGPG YSGGSRGYGSGGQGCNQGDSG YGRSGSYDSCNKGGRGGFGSG SGSNFGGGGSYNDFGNYNQY SNFGPMKGGNF/GGRRSGP*GD GGQYFAKPPNHSGYGGSSSSSS
5058	35426	A	5099	1	636	MRDPNTKRSRGFGVTCATVE EVDAAMNARCKVVGRTVEPK RAVSREDSQRPEDTEELHLRDY FEQYGKIEVIEIMTDQSGKKR GFAFVTFDNHDSMDKTVIQKY HTVNGHNCEARKALSKQEMAR ASSSQRGRSGSNFGGGRGGGF GGNDNFRGGNFSGHGGFGGS HGGGGYGG/SGDGYNGFGNDG GGGSYNDFVNNQSSHFGPM
5059	35427	A	5100	1	3622	MTGICYTEDERSYKKNAPTA ASKKQKETQKFCLRVGQQKV KLSVLQEKSQALTVQLKSQKFL GHPTAGRGRSELCLDLPDPED PVALETRSVGTWVRERDLGMP DGEAALAAKVAVLETQLKKAL QELQAAQARQADPQPQAWPPP DSPVRVDTV RVVEGPREVEVV ASTAAGAPAQRAQSLEPYGTG LRALAMPGRPESPPVFRSQEVV ETMCPVPAAATSNVHMVKKISI TERSCDGAEMKWEDQNIGD

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5060	35428	A	5101	1	782	MRRRLQLDSLLHPPSCFSSTLK CGKAAAAACDSSDQIERLQT GHLPCASHTICPPNHHSQSTLR PPLPPAHNHTLSHHHSSANSLN RNSLTNRRSQIHAPAPAPNDLA TTPESVQLQDSWVLNSNVPLET RFWCCQRFLVFPGLQLQHLTLS LPVWSHGALPVSLCIFTWLSSH KDTSHFGLRVHLLSLPLEAKYS FYPGCPVLEPAPNPLKGPWCLW GVGTFRRYCTTFLFNESEPKDL VGEKFKSDRLCREAHLQE
5061	35429	A	5102	3	1864	
5062	35430	B	5103	1	525	
5063	35431	A	5104	2	351	RPAVGAEKSNPSKRHRDRL\NA ELDHLASLLPFPDIISKLDKLS VLRLSVSYLRVKSFFQVKRQRR EIHGRNCQKKRNQNLKDRGWQ WQMPKMWMTRANEGPCRS GPEHWTPRP
5064	35432	A	5105	1	375	RPLQKQRPVGAEKSNPSKRHR DRLNAELDHLASLLPFPDIISK LDKLSVLRLSVSYLGVSFFQG QGLAVADAEDVDDHTGERRP MSFRRPRALDTQALRRTQFGLH LLMVNIAGLIATDRL
5065	35433	A	5106	407	910	NVTPAHYDEQQNFFAQIKGYIR CILFPPDQFECLYPYPVHHPCYR QSQV*LDNPDYERFPNFQNVVG YETVVGPGDVLYIPMYWWHHI ESLLNGGITITVNFYKGAFTP KRIEYPLKAHNKVAIMKNIEKM LGEALGNPQEVGPLLNTMIKGP IQLACQGSRRPAR
5066	35434	A	5107	237	908	HEKPGRQRETRSQNHSHHHHHH HHHHQEKIRIQTFTERP*EDTER SDCPQAKKRSRRNQPC*HLDF ELPAARAATQPVNSGARAGRA GATVPRHTATLLLLHQRRDYA GGSLCDIDRAPDAKQGGKS*ES ETDSRFWKGTVC*DHTAGWVH GRPTTPHHSSPDSRNGGFQLHQ QIALAAGWREGASRPKQEPLQP GPEQGQRRGRREPVGKAPSG HQSHPAE

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5067	35435	A	5108	57	873	SGLCTAAFHHQMEVVHT*SVSS RS*R\PTTPVIAQWAHEQSGHG GRHGGYAWTQQHGLPLTKAD LAMATAECPICQQKPTLSPRY GTIPQGDQPATWWQVDYIGPL ASRKGQRYGFAYLARNVSAKT TIHGLMECLIH HHGIPHIIASDQ GTHFVAKEVRQWAHAHGIHW FHHVAYHPEAGGLTEWWNGL LKSQ LQRQLGDNTLQDWGKVP QKAMYALIQCPYIGIVSPIARIH RSRNQGVK VEMAPFTITPSDPL AKCLLPVLVTLRSAGL
5068	35436	A	5109	1	311	QITMQPELPIMNWVLSVPSSHK MGHAQQH\QEVAQMPRVSTPA TLP SLPPALMAPWTVPYDQL MEE EKARARYAGTIQKWTAAA LQPLSRTSLKDSGEGTSKW
5069	35437	A	5110	3	591	DPADPMVLEVSEADRDA\VPIS ESQQRPLGFWSKALPSSANNYS FFKRQLLACYWVLVEIEH LTM GHQVTMRPELP IINCVLSDPCSH KVGHAQQHSIIKWRWYIHDWA EGTSKLHEEVAQIPMVSTPSLP QPAPMASWEVPYDQLTEEEKT RAWFTDGSARHAGATQK WTA VALQPLSGTSLQDSSEEKSSQW
5070	35438	A	5111	1	582	
5071	35439	A	5112	1	635	

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5072	35440	A	5113	2	1538	FFPIGFWRQHPRLSVLLQHIY* VT*KAASFEWGPKEKAL*QV QAVVQVALPLGPYDPADPMLL EVSVADKDAGCSLWQAPIGES QWRSLGFRSKALPSSADNYSSF ERQLLACYWALVETECLTLGH QVTI*PELPIMNWVLSDPSSHKV GHEQQHSIIKWRWYICDWAVV GRETTNGLAGWSETWKKHH WEMGEKQIWGRSMWMEELSEW SKTVKIFVSYVSAHQCVTSTEE DFNNQWDGDMTCSDVDTTHPLSL TTSVIAKWAHEQSDHGGRYGG YAGAQQHGLPLTKADLAMTTA ECPICQQRPSPQYGTISQGD QPATWWQVDYIGPLPSWKGQR FVLTVIDTYSYGFAYPEHNTS AKTTVNGPMECLHRHGIPHGI ASDQGTRFTAKEVWQWAHAH GIHWFYYPHHPEAAGLIGWW NGLLKSQQLQCQLGDNLTQQGWG KVLQKAVCALNQHPHYGTVSP VARIHGSRNQGVEVEVAPFIITS SDRLAKFLLPVSSSTSCSAGL
5073	35441	A	5114	488	966	ILVGSKGQSVCPGPSSSGTRGSS SPGVAVSNKAAATVGPQ*VTQ QEGGPGSRQRTRAGSPELVPAG PSAVEGEEGSWTPGGPQVPRKR SAAPSRQR*HWLRCTPA*QRRG DWPRAAGRCHAARPPAAGSRA PTKISARPTRISRLGPRAASKAQ RLQRL
5074	35442	A	5115	197	421	KLKATMNSFHKS*SCALVSTRP CSPRGDPRATLTTPALVEPPCG TQDPKMAAEAPQRPGRKLRN LLTRRRPT
5075	35443	A	5116	3	5649	LLEKLRQRIHDKAVALERAIDE KFSALEEKEKELRQLRLAVRER DHDLERLRDVLSSNEATMQSM ESLLRAKGLEVEQLSTTCQNLQ WLKEEMETKFSRWQKEQESI QLQTSLHDRNKEVEDLSATLLC KLGPQGSEIAEELCQRLQRKER MLQDLLSDRNKQVLEHEMEIQ GLLQSVSTREQESQAAAEKLVQ ALMERNSELQALRQYLGGGRDS LMSQAPISNQQAETPTGRLGK QTDQGSMPQIPSRDDST
5076	35444	A	5117	2	157	YLGRHLCFSEHEEHSSRKEMV LVEGLCSEQGRRG*TLASSSER KPLENER

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5077	35445	A	5118	248	621	TDEPSLLSHTFCPKGALLSACSG ACPLSSGTQAGMPPSTEALQPC RGLTVPHQ/LG*RPQGMLWWK ALAADWSVEWQKGRRGLGKA LSVTSRTGRLLCR*GSAEAAAS PLAASPRRSSRALGAGIP
5078	35446	A	5119	2	157	YLGRHLCFSEHEEHSSRKEMV LVEGLCSEQGRRG*TLASSER KPLENER
5079	35447	B	5120	125	994	
5080	35448	A	5121	1	550	RRYRPRRVQDPGGPAEAERGPP RRLLNARVHVCRAEASERAPGP CGRVSAHVERARDPRLE*QLED KAAPRQDFTQQLRGPEKQHRM VWQEKEDMHKQLVEASETLKS QAKELKDAHQQKLALQEFLE LNELMAELYSQKQKVWDKEEE MEVAMQKADMMWQEI*RSKK LRKRMLFSQMRWL
5081	35449	A	5122	135	638	GSFPGPAPLGQTLVTGLAWQS SGWILRGWLVPRAKCSPRGQ ALAICLSLRGLGARSTWAETRP QGPRGSLASLCPAHMDLSIWKT GDGGPRSAFSKVHQGSLNFTG VDTAARRLSQARTAPSPSVISAP SSAAAPASAGPPPAPGAPPTPA QALRPAPPSRPAER
5082	35450	A	5123	193	610	VGELLPFRFKISLRPFLALCLSSL GPCRQPHSGSVPA*NPLLGPR KSSPHSGCGLAPFAIPELLRRLP LEGSAHCPAPEGAASPPTSWS ADPPCRETSIFAPPRVLTTPGPS APQASPSQPLLFLTPRWDRLPES VL
5083	35451	A	5124	2446	2630	VGFFFFFWWGERGTGSYSVTQ ARVQ*YDLGSLQLLPPSFKGFS CLSLPGSWYYRHGPPRLG
5084	35452	A	5125	3	710	EDGDWDQRRGGEAGDQDQRR GGEDEDQDQRRGGEDGNRDQ KRDGENGDWDWKREDENKDQ DEKREGEDGNQDQRRGGEDGD QDQRRGGEDGNQDQRRGGKD GDQDQGRGGEDGDQDQREG EDGDQEQRRRGEDGE*DQRRG GEDGGQDQKRGGEDGNQDWS REGEDRD*HWRRGGEVGE*DQ RRGGEDGE*GQRRGSEDGDWD RSRGGEDGDQDQRSVGHLCBS QGPPASGCVS

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5085	35453	A	5126	506	882	RCSGQGGFDGNKGTKALPTISA DTTRCWRTLRLVTQMTCRFRF KAFFIGIMSCGRTGRILFPPCSS MSWIPCRAKNS*GNVISQSPSK NR/WQIMMVIQLLNFYLPGDFV SFRIMLKGNWEVTRTRG
5086	35454	A	5127	107	1327	ERRKRAVGGFDLVLGEQPSDKI FR*VIV*GLALWLPLSKSFVIPP AELAINPSAKCKTDMTVMEDA VEVR*VWLQD*GLDSLEVLLDS FGPVRDCSKDNGGCSKNFRCIS DRKLDSTGCVVGLPCKLVVDS SGCYDRHIGVDCSDGFNGGCE QLCLQQMAPFPDDPTLYNILMF CG*VELPARPLDGRSCQLITETC PEGSDCGESRELP MNQTLFGEM FFGYNNHSKEVAAGQVLKGT R*TSYT*N*YQQLPDGLVVATV PLENQCLEEISEPTDPDFLTGE CAFSTLFGYPVLQHWKVR SVM YHIKLNQVAISQGEHCCRLSCD GATSRADFVALLDQFGNH YIQE AIYGFEESCSIWYPNKQVQRRL WLEYEDISKGEWHACWQILSTF PWIVISLHNCLP
5087	35455	A	5128	3	23	FYSAFLVADKVIVTSKHNNDTQ HIWESDSNEFSVIADPRGNTLG RGTTIT*VSIPPSL

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5088	35456	A	5129	1	2462	MRALWVLGLCCVLLTFGSVRA DDEVVDVGTVEEDLGKSREGS RTDDEVVQREEEAIQLDGLNAS QIRELREKSEKFAFQAEVNRM MKLIHSL* [*] NGIFLERLISNSS CAALDRSLISLTDENALSVNE* LTVN\KCDKEKNLLHVQHTGV GMTREELVKNLGTIAQIWDQ ASFLNKMP* [*] SHRKMGPVNLPEL IGPVVWSGFLFPPSLVADKVIVT SKHKQIPQHIWGVWTPNGIFL * [*] LLDPRGKHS* [*] DRGNRQFTLCP * [*] KEEASDLPWNLDTIKNLRQKN IHSFIKLFLIYVWSSKTETV* [*] GA PWGEEEEAAKEEKEESDDEAAIV EEEEEEKPKTKKVEKTVWDW ELMNDIKPIWQRPSKEVEEDEY KAFYKSFSKESDDPMAYIHFTA EGEVTFKSILFVPTSAPRGLFDE YGSKKSDYIKLYVRRVFITDDF HDMMPKYLNFVKGVVDSDDL PLNVSRETLQQHKLLKVIRKKL VRKTLDMIKKIADDDKYNDTFW KEFGTNIKLGVIEDHSNRTRLA KLLRFQSSHPTDITSLDQYVE RMKEKQDKIYFMAGSSRKEAE SSPFVERLLKKGYEVIYLTEPVD EYCIQALPEFDGKRQNVAKEG VKFDESEKTKESREAVEKEFEP LLNWMKDKALKDKIEKAVVSQ RLTESPCALVASQYGWSGNME RIMKAQAYQTGKDISTNYYAS
5089	35457	A	5130	45	416	RWGLAMFPSLDNKSETLSQKK KKKDLCPHISFEMDLTTADAR WVQDAATRLLATTRCPPNSRG SR**ISWRAGCCPGGWAGPHW GHDGCL* [*] PSCVSSS
5090	35458	A	5131	3	477	GRLPRHRGGEPGAAQPAGRQP RGGAAATAAGAPRAGGGAAA GNARRCREAAARDPHHGECSG PEPSQCEGAHQRAAGRAQGD* GGSGATGEGGRRGHDSHNPLG RVRGSTLPPS** [*] N* [*] VGL* [*] VPSWP QCGPAHPPGQHPALQEIHQRLP LESGGHRVV

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5091	35459	A	5132	3	446	RTGSWGWSASQQRHRKDRGL DSAGSGWVSHILPVPAPPADA RPSASRWRRQGSHPPLGRTECP SVQPLCLPPPAGHHRNHSIASPS QTPPPRSLPGSQDKSLFLPRDRR TGEGEHGMN*APLSAPGTSCRS GGSTSWLPEILGPTQ
5092	35460	A	5133	352	588	DIFKVGCGFLFKRLRCQQRFFL LIFSSSTQSA*RVSNQPYH*EIK MAVYYYGELRKNGLIQESCDNIQ PRQGSFNMDSMQ
5093	35461	C	5134	13	144	
5094	35462	A	5135	587	1078	LSQRFLSSRIKLQRLSLQNGIP QIKELDYLFRTNSNQINFNLLSH RVRARPPAPPGRPNPSPGDRPP EPPARAGSSRRGPGEPQRQPQ RRFRRRGPDPRGRLSRGL*RRR ARPASPQPRQHHSRGPAGRPGV APRRPAGLAAAAERLTARGAA ASPAIPRA
5095	35463	A	5136	44	455	HLRNRTR/PSQITPHIYNHLIFDK /PLFNIWWENWLAICRKLKLD PFLTPTYTKINSRWIKD*NIRPKSI KNLEENLGNTIQHLG/IGKDFM TKTPKAMATKAKIDIWDLIKLK SFCTAKETIIRVNRLPT*WEKIF AIYP
5096	35464	A	5137	101	861	LIGYQPKMSRTRRIHSRILPERIK YLGSQILRDVKDLLKENYKPLL NEIKEDTNKWKNIPCSWIGRISI VKMAIL/PQAICGKLKLDPFLTP YTKINSRWIKDLNVGPTTIKTLE ENLGNTIQAIGMGEDFMTKTPK AMATKAKIDKWDLIKLKSFCT AKETTIRVNRQPTEWENIFTIYP SDKGLISRIYKELNQIYKKK\TR NPIKK*VRDMNRHFSKEDIYAA HRHMKKCSSLLDIREMQIKTTM RYHLTP
5097	35465	A	5138	3	314	LKSFCMAKETTIRVNR*PTEWE NIFAIYPSEKGLIYRIYNEATNK DLVRRSGPLKTPKKKSQTLVLN LVTFKRTPALSEEKESAQVLWQ FKKPECVLTSKRVH

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5098	35466	A	5139	1	1278	MNIDAKILNKILANRIQQHIKKL IHHDQVGFIPEMQGWVNICKSI NIIQHINRTKDKNHMIISIDAEK AFDKIQQRFMLKTLNKLIGDGT YLKJIIRAIYDKPTANJILNGQKL EAFPLKTGTRQGCPLSPLFNIV LEVLARAIMQEKEIKGIQLGKE EVKLSLFADDMIVYLENPVSA RNLLKLISNFSKVSGYKINVQK SQTFLHTNNRQRESQIMSELPFT IASKRIKYLEIQLTRDVKDLFKE NYKPLLN
5099	35467	A	5140	1	430	GGVFFLRTPTDCCGMLQGAAG STGFYASEARPRGPACSLDRGS SSLLSWGLHQDPLFPAKQHR EAGRADQNSPRRLSTG*QTPT L*RRPAAATGRRRAQPPRATSV SAPASPPCPRARPPHHARPPRVL ACQP*ATAGP
5100	35468	A	5141	1	346	
5101	35469	A	5142	3	1336	
5102	35470	A	5143	5	283	
5103	35471	A	5144	1	1368	
5104	35472	B	5145	1	838	
5105	35473	A	5146	1	962	
5106	35474	A	5147	19	87	
5107	35475	A	5148	41	831	GLQNPKHQSSQLVDLKMKKSL LQCMFQYLIVLQ*YLK*YLG LTRDVKDLFKENYKPLLKEIKE DTNKWKNIPCSWIGRJNIVKMA ILPKDPTTAQLSPRGSTAQKGH WRPCPLPPRGVPRSPRGPTSH HHDCPGGAPVRNTGSEWRQR KLRSQPKSDWAGRAQAPSLGE GAKNGKSHPGSHRAFSLPRAP RRLGPGSQGRFRGFLKQARGR AGEGHSAILLAPESPNAQVSNV TSATYRSNLSGLPRPCSVLLG

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5108	35476	A	5149	1	2233	MKAEIKTFFETNENKDTTYQNL WDAFKAVCRGKFTALNAHKR KQERSKIDTLTSQLKELEKQEQ THSKASRRQEITKIRAELEIET QKALQKINESRSWCFEKIHKID RPLARLIKKKREKNQIDAINKD KGDITDPTEIQTITIREYYKHLY ANKLENLEEMDKFLDTYTLPR NQEEVESLNRPIGTSEIVAINSL PTKNSPGPDGFTAIFYQRYKEE LRIKYLGIQLTRDVKDL\FKENY KPLLNEIK\EDTNKWKNI PCSW VGRINIVKMAILAQGNL*YKFN AISIKLPFTFFIGL/EKNLTFKFIW \NQKRS\RIAKSILSQKNKAGGI TLPDFQTITYKATVTKTAIWYW YQNRDIDQWNRTEPSEITPHIYT IL\FDKPEKNKHGGKASL\FIK WCWENWLA\CRKLKLDPFLT PYTTINSRWIKDLNLRCQIHKTL EENLDNTIQDTDIGKDFMTKTP KAMATKAKIDKWDLIKLSFC TAKETTIRVNRQPIEREKIFAIYP SDKGLISKIYKELKQIYKKKNK QPHQKVGEQYEQILLKRRHLCS QQTHESMAHHHWPCREMQINT TMRYHLTPVRMAIIKSGNNRC WRGCGEIGTLLHCWWDCKLV QPLWKS VWRFLRDLELEIPFDP AIPLLGIYPNDYKSCCYKDTCT RMFIAALFTIAKTWNQPKCPTM IDWIKKMWHIYTM EYYAAIKID
5109	35477	A	5150	1390	3491	DLLTRTACAVPGWGCSSRATC QARGWRLSSPPHPSGVQPLL HLPYPPSPFSLSNLTPFLRAFPR SLETS*KWART/WPGAVAHAC NPSSLGGRGRWIT*GREFETNL TNMEKPCLY
5110	35478	A	5151	310	445	YLTKIWP GAVAHTCNPSTLGG GGWIT*GQEFETSLANMVKPH Y
5111	35479	A	5152	44	1132	PQVIHPPRAPKLELQEPWRWIH DLNQDTPSALCQH*RTC*HRAE GVSWFKSWIHLGGSCNSSLGA RGGWIT*GQEFETSLTNMAKPH
5112	35480	C	5153	183	323	
5113	35481	B	5154	504	2474	
5114	35482	C	5155	66	269	
5115	35483	B	5156	2414	3096	

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5116	35484	A	5157	9	239	HHHYCQH HHHHHHHHHHHHHH LPAPCRNLRV*PVCFRYKLVWFH YGKQHLLFLDFLLSHSEWC VSHCGFDLHFSDD
5117	35485	A	5158	3	387	TDTKPLSCSSCPGRGKPVSHR DQ*RRWGRRCRGEPTACWS AGALQF*KPRSRGGRTSKMTSG PSAEKGGG*AGRKPGRRHFGRR VLRHSCVLPVARELWGRHGPG GWRQKNVPWKWSELLPVVAP
5118	35486	A	5159	1	277	MPPPPPPSESPGPGVGSRLPPG PAVTGNEKELRGNP*VGLAPPR PRFRASRREGVTGKVHRPNRLQ LRAPPKG*SDQRGQNVPPSEAK SLC
5119	35487	A	5160	1	3285	
5120	35488	A	5161	3	194	IPLSLQSKEVGQQLQDDLMKVL NELYSVNQMGCAL*QAEGSSI WQLAAIVHQQN*TPSWGQ
5121	35489	A	5162	520	844	VQAPGKCHAQMPAPAPVPLG RSRNPGRLASAVPVSSLLRFLPF LQPIPPSDILPLSF EAVPSSPAE SGLHPCTRRRKRARPSC*VPGL LLSPQPHPPPHVWRKGIL
5122	35490	A	5163	1	794	FRGFLDRGDCAALPCTYPHSPC SH*GGNCLPSLLTRPCVKA*PQ MSGRKSSMRWRQRSLTAGT SS*TPTSSTMC*ALVGSSTWNC MLQAGSTAPGAGTPGSRPTWS SSSTCSWTAPSGRARCACASS SCAMSAARRGWTSPACWRRTS RAWWTSSPACASSATASVAA STASTWPAARTTGGAESSARP ARRASCTGSPARSCWRRRRPPT PSPGRPAPPSRRTRRAQAGTSA LSPGACFGPRSCC*SSTCSSLSV APY
5123	35491	A	5164	3	57	RIGQGVVVHS*VEGGPNVISIV LEYLRDTPPVVVCDGSGRAS DILAFGHKYSEEG*VKVFLWC THKWKEDPM
5124	35492	A	5165	1	1326	
5125	35493	A	5166	2	337	YSVTMTPGKLRTLCEIDWPALE VGWSSEGLDRSLV*KVLCPEL VPSGGFLVSLTSRMKPQTLTGS VKVLKDGMSGVCSFRCSVDVSR VSSFVWVRGLAGWSTTLRLKL
5126	35494	C	5167	339	548	

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5127	35495	A	5168	3	413	SQAFLPAASRRERPPEPVDPKA TDRSGTRRLPPRLPCQWTTPE HSHTSQLNLSRAFPKEPNPAAT Q*NPSGASPRERPHARAQEDRN GEC*EGNGSRPDLEEEASTPRA SPTPSD*PLWLHPPRPLVLETPL LQL
5128	35496	A	5169	3	479	FLHSTHIYWAHSMHELLKTAV VSISGQCTSLNTESGIWGGVPE NAR/CPPAEGTVPASLQPRDPPR LPGSH/ASLPSASPPSRHVTWPP EP/EAAGPKPS*IRCWWPPAGAT TKANPKESGRLVESMLPLPKSR SAPVTFSAFACSGLPERVHEVF RVGKLR
5129	35497	A	5170	81	329	QSVSSPSWFPQFPVQVQKVPCY QVYRGDLVV*KHVAPPPSLPSS FSGHVRHDCFPFAFHDDRKFPE ASPAMLPVSSLGPHYL
5130	35498	A	5171	335	467	MPSTPTARKPESPEALARVESIA CLPSPAPPHECSPQASEETG
5131	35499	A	5172	1	2424	
5132	35500	A	5173	2	304	CLTKNTSATREKQVTELHRRSK LQPEPAKTKALQTVE*KDITLC *VKEHLYIVACWALRLHLVFLP TKAGISPALMKVSYPGKPLTLK QLGRLVILQEQ
5133	35501	A	5174	44	286	GVQNGVEELILVRRMQKSPGP GEMESGSLEKEPLGTQTGPVPS EGTE*TQGPPRTPSLQTQGPQRT PSLQTQGPNTPSL*TQGPLRTL SLQTQGPNTPSLQTQGPRTPS LQTQGPQRTPSLQTQGPNTPS
5134	35502	A	5175	206	384	KRVFAHQADGRARSGFISSAGP GSQAGPGQGTG*QREDVEAAG QPGSTAEGVRT*SDPG
5135	35503	A	5176	270	818	RNERKPSQRTAVGLGAGQLQP GQPGVQSEEPGLEAGCAAGV LPGPAEQDREGIYSK*KRVFAH QADGRARSGFISSAGPGSQAGP GQGTG*QREDVEAAGQPGSTA EGVRT*SDPGSSHPAAAFYEN IQDGEALGRCGAKRTATAAP*Q RG*EGF*AGPTAAEKNEEGPPP VFSLFNHL
5136	35504	A	5177	122	436	LTSLSAISTKAKVSPLCSARAC SPSPAARAALGSPGFTC*GAGV APTPVPVAAPAPATAPATAVAA AATTTVSAAMFTRRATRAAA ATGAWGFVAGAPWPLQT

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5137	35505	A	5178	20	1341	MRRCVAAPLAHRW*QKLG LPGA CTPTVCSFLSPQPPRARSSSAT LSSGAPRRAATPQPQTTPSSVQ PAAATPCARGGRPAPAGVTWP TTRPSMA*RTS*ASTTAPRMAP PRSHACARSHRPETARSARTAP RSAITTRAFTSTRPPPTTRTVAS SGTHTSGLSPTASRLARCRAPG RSSTIIT*TCRSPTRLCCPAQRPL PPASSPSSSRTSRSVWTRRCTRL RWTSSRPPSWMALRTVGTSTGP TA*RSLRRQCASTWRSRPSTSA PPSWCARWAAT*PLPSACQRK WSMLWRTGTARVSTSACGAAP STSRSTSRPSTPMLRAPVPAGW QPPALHPQPPRPSHTRQWPWSA RRSCRWRTCTTRPASSTSPRA T*TSHWPPTTRWRMSRCSTPTK TNCTCMRGLGTCQAGRLRGCP WPPGPSWAPWSRSWPCSLCSA
5138	35506	A	5179	47	598	ASGPASIVVLRQQFIKFFLDEICS LEERVWCRKLCLLYLWKEPR AVQAKSRCSDIRRELYRPVSLA GLSGDFLRAGRYSAHTVNGAW SAWTSWSQWA**SRGLLLALH NMLKIIIAFCSLQVATRIQSTFIS SWHLSPSLLGSRFSFLYMSFGS VLCPLFISHDTSSYSTKSFQSFSC LGVW
5139	35507	A	5180	236	690	LQNWSYLAEQCWNGGFIYILIM LRRFKHKAHSTYNGNSSNSSEP GETPTL*LGDR TAKKGKRTRKF GVISRPPANKAPEESKGSAGCE VSSDPSTELENGPDPELGNGHV FQLENGPDSLKEVAGPHLERSE VDRGTEHRIPKTDAPLTTSN
5140	35508	A	5181	2	480	WPFWAMVQRPSSAILCGPATLP PNCRGACCARCRATGALSAYP AIHRPATRPPAPPAGPLTSPPL SVQNSNPDLPSARPSGPAAPR HARHSPSELPA TL SARGSSAL CTKLKVEAAA*SCSASAWNWR LLPRNHVDSRCQPEPDGARARD GRGP
5141	35509	A	5182	3	153	
5142	35510	A	5183	3	239	
5143	35511	A	5184	1	394	
5144	35512	A	5185	1	435	
5145	35513	B	5186	84	2068	

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5146	35514	A	5187	149	832	DAGLSWREATRPGAPLHRPGC QDASTQMTRPGDPGSSALFPLP SP*PEREELPMSSRRSPKPELPG EACSRPPTRPRPRTATRGPPLN GRUPRARLPVSAGAGALGGGR CRRRVAPRRVTPRLATRPSGVA PRGSG*AATTKLSLAFGVTPLA LTPWSRTPFRKREERPPF*YPRP ATPEASPAHVENFRSNQTRYTS AE*SQQLERPSIAEISAQATVE PRSTI
5147	35515	A	5188	45	312	AEAQGGAEAEHGGGGGPAPS QGCPARAAGARGWQPAPSPQK P\TPSDTTPPPRTQPPVTQPCHP VTQPPVTQPPVTQPRHPMKIPPP G
5148	35516	A	5189	15	549	PRHKEPESQAPGRRAPQAAAY QQAASPAR*QGGSCSRCPPG*A VEAAPAP*GQALGCVSQGPA*V GPTRSPHPTAGLSRPHGPPSVRS TGWSPSSRPLQAQEAPWPVAPT HIPPLDPGQPHSCGLGAGCQP RAPAARAGHP*EGAGPPPPWP SASAPPCASAPVLWLRFPRET KT
5149	35517	A	5190	1	2445	
5150	35518	A	5191	1	708	FSEGRNRFLNVGPTRFSTSRQTL MWIPDSFFSLLSGRISTLRDET GAIFIDRDPAAFAPILNFLTKE LDLRGVSINVLREAEFYGITPL EKIKMEYCFVCMYS*QVCFE MFLVRRELLCEELERSSCGSVL FHGYLPPPGIPSRKINNTVRSAD SRNGLNSTEGEARGNGTQPVLS GTGEETVRLANTIDSKYVAND DWLIFQYVDEEDLMNAIKDFSS VTKERTTFTDTHL
5151	35519	A	5192	31	330	YGGTATVQRWAESRHVPFPSP QEQNANKICSVCQEEKDSADSY GEIPWWQGPERCWPVRLMLAT LGDYKWVLTGIGTDS*LGFTIPT DHANAFSAKEIPQ

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5152	35520	A	5193	1	734	MISEVIVIQMLFLHAFSKVFSAL IKNNKKPLQDAQIKWKAISGLS GGMRRSECNRRERDQVTRTQCR DISQK\RGPGD*GMATSKNGAM A*QLGPCQCGDASTGNAEFGES AHAWSGGGRVPGVTGPDREEV GRSWQGTSCGGTSCGRLQ* DGVASRGRW/DPARPREQRAG VRQLAAPLGGP*SRRPWEPPGG SSCGRYLFAISSWSGVTVAQEG QRKRGSGK*RTERSGPGLRRL PLLLLTV
5153	35521	A	5194	3	449	EGQRSSSPATALSSSGPPSLKM ATSKNGAMA*QLGPCQGDAS TGNAEFGESAHAWSGGGRVPG VTGPDREEVGRSWQGTSCGGG TSGCGRQLQ*DGVASRGRWDRR DRASSGRESGWLHHSAGARSLG APGSRPVEAPAAGSEAKTPG
5154	35522	A	5195	606	841	CTVGFALPVFY*GFSH*CSSGIL V*NSRFLLCCLQALVSG*CWPH KMS*GGFPLLLLTGIVSEGMVP ASLCISGRIQL
5155	35523	A	5196	620	930	IPFISFSCIALARTSNTMLNRS ERGHPCLPVFKGNASSFCPFS MILAVGLS*IALIILKYVPSIPNL LRVFSMKGC*ILSKAFSASIEIIM WFLSLALFI
5156	35524	C	5197	1	819	
5157	35525	A	5198	591	815	
5158	35526	A	5199	187	387	FFKTICFMRVRVKRPPNRLCVS NMAVYFTWVQAGLHCESYPEH L*WSCRLPRRLGGVRL*PLEGE
5159	35527	A	5200	1	1197	
5160	35528	A	5201	119	375	ILDISPLSDE*IAKIFSHSVGCLFT LMVVSLAVQKLFSLIISHLILA FVAIAFGVLDVK/CLVHAYVLN GIA*VFF*GFYGFERSNI
5161	35529	B	5202	1	1053	
5162	35530	A	5203	2	157	
5163	35531	A	5204	12	176	
5164	35532	A	5205	2	223	QTVLEDSPRARWIF*G**GTIC SIPIPSFWWFSSNLSSHVFCRSP SSSPGGLPMCTCVSKFPWAVW PFSRY
5165	35533	A	5206	61	308	

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5166	35534	A	5207	487	898	DFAEVAYQLGISSGVCRTTDFH EPRMLLSDRSSGSFVTIISVFLS FSSLKCL*SPLVHDALHQAFHP GKSRLRFLGSMACCMKFTCP TLSTVPSSTPFSFCSLIKTRSAT LLKLWSISLRFLHSWSSAFRV
5167	35535	A	5208	9	191	IPQHIYPPKTKPGRI*ISE*TNNR L*NCGNDQ*LINQKESRTRWIH SRILPKTNREPHE
5168	35536	A	5209	1	1989	
5169	35537	B	5210	1	1488	
5170	35538	A	5211	929	1209	IPFISFSCPIALARTSNTMLNRI ERGHPCLPVPFKGNASSFCPS MILAVGLS*IALIILRYVPSILNL FRVFSMKGC*TLKAFSVSIEII
5171	35539	A	5212	242	642	FSLKRSFTSLVSWIPRYFILFEAI VNGSSLMIWLSVCLLLMYRNA CDFFPLILYPETLLKLLISSSSLY LW*NSAVNLSGPGFLVGRLLII ASISEPAIGLFRDSPSSWFLGR VYVSRNLSISSRFSSFLV
5172	35540	A	5213	747	885	
5173	35541	B	5214	115	1267	
5174	35542	A	5215	209	322	
5175	35543	B	5216	1	3321	
5176	35544	A	5217	390	655	CLFPVHYPRLHAMMHQMKNP VLVLGIGGFILGILGVIGGPVSLF KGS*KLLGLIETGKISLDHPVPG GTPTKMALYEHFMNTKEFGIE
5177	35545	A	5218	3	221	
5178	35546	A	5219	798	914	FVFLWDRW*YPLYHFLCLFDS SLFFSELVLLAVYQFC
5179	35547	A	5220	12	460	YLCMLHEVLVLCFSVPSGHFSF SLN*LF*LAVPVTFYQGLSFLA QA*ASQVDFRQLCWQQEFQAS GS*LAGLHGSGIH*ARPLGSWL QLPFQSEWFCLSGVPGATVVS /CTF**SPF*LV*DGISLWF*FAFL *WPVMMSIFFMCLLAA
5180	35548	A	5221	3	508	AERNRSRQGVGAGAGDHEVLQ LLPDKWKQKILCPVQLLRGAW SNYYSPDANRQP*VQGNALHF AECWPHGEDSQPTVPTSQGRM LAGPARHLPHPHVPSPSGLRG SDSEDTH*GTVAGSGCLHCLAP GHLHPGWPPSRVLPIDRSVHQ GPGRKAPPTPPRVTPFLT

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5181	35549	A	5222	584	1052	LRKAAASGSFVFVAPDPNTDTG SSQCSESESGSRGCSMGHQRSL QHYYHHHHHHHHHHQHHHHHHHH HLDTGWRGE*SRHSAGLCPPSQ RRLHSCQTSPSCSPPSGHRCI*LT GIEAA*CHSL*PYQKDACHHFE EHSPPP*RPHLPRHHLHPQPSS
5182	35550	A	5223	1614	2308	LRKAAASGSFVFVAPDPNTDTG SSQCSESESGSRGCSMGHQRSL QHYYHHHHHHHHHHQHHHHHHHH HLDTGWRGE*SRHSAGLCPPSQ RRLHSCQTSPSCSPPSGHRCI*LT GIEAA*/WS*PLTSLKRCVSPLR RAQSSSVTSSTSAQASSAPPEKK *L*PERPYSSPHASVADLQMC LPLNRITGQTNRPLHRAILLRW MRSCNLLTCTVLSNVFSFSSELS YSRNTMCRG
5183	35551	A	5224	3	407	SVGLILPSSLQHYYHHHHHHHHH QHHHHHHHHHLHQRKLAPPLC* ADLPTCAPHQGIRPFGGFPQTS GSPGLPVYAEEOGTERLSLQGT GCGCQAGLLCWGPPVASTSVG FSLESSVSPEQVPLSPGPAGTDA
5184	35552	A	5225	1	1287	
5185	35553	A	5226	3	1315	STMALLHSGRVLPGLAAAFHPG LAAAASARASSWTHVEMGPP DPILGVTEAFKRDTSKKMNLG VGAYRDDNGKPYVLPVSRKAE AQIAAKNLDKEYLPIGGLAEFC KASAEALGENSEVLKSGRFVT VQTISGTGALRIGASFLQRFFKF SRDVFLPKPTWGNHTPIFRDAG MQLQGYRYYPKTCGFDFGTGA VEDISKIPEQSVLLHACAHNPT GVDPRPEQWKEIATVVKRNL FAFFDMAYQGFASGDGDKDA WAVRHFIEQGINVCLCQSYAK NMGLYGERVGAFTMVCKDAD EAKRVESQLKILIRPMYSNPPLN GARIAAILNTPDLRKQWLQEV KGMADRNGHAGLQLVSNLQG REG\STHNWATHSPTKLGMFC FHRG*KLEQVERLIKEFSIYMTK DGRISVAGVTSSNVGYLAHAH
5186	35554	B	5227	57	386	
5187	35555	A	5228	1485	1883	
5188	35556	B	5229	117	641	
5189	35557	C	5230	1	552	
5190	35558	B	5231	250	378	

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5191	35559	A	5232	3	1117	TPDPGQGCSEGGIVHETRPSQP LCQGSCAVGCSPLGLLR*RMM ALGKIPPGHRGPAFLPAVESAH VVPGLPGLTRETLPAPLGPHRPP QPPQGPLSTAPPAPLVSPLGPHV PGLPGPPPGCPSPLPLRPCPPPS WLRPHRPVQPWWGT*GSGWRP RCRPGAAGRNPGLPRACCRGL CRGPH*RPGGPRPGHSGPRTSS WGRTMGNRPRPSASAG**PRHR R*TSAERPGSPQQSASRTGGRS PLSHPGSWWGVGMPPGLWAG APSMWG*GPGSRVAGGSGRRP TSPRPPHYPPHPPGTWPSGAQS GRR*QAQTPGAATEG*GGWGL PPKPWCPQDQFLGVQDWVLPP NGARVGGTAWWKRESVLVPG
5192	35560	C	5233	229	522	
5193	35561	A	5234	1	972	MTAEYYKLKQVVTPIAAAVPD VVSLLLEQINISLCTWYAVIDL NACFYIPVHKAHQKQFAISRHG QQYTFTVLLQ/RRDLDFSLPQ DITLAVHYVDGIMLIGSSEGEVA STLDLLVRHLHARGWEINLTKI QGLATSVKFLGVQWYGACRDI PSKVVDKLLHLAPPTTKKEAQH LAASFEWGPEQKGLQQVQVAV QAALPLGLYDPADPMVLEVS ADRDVWVSLWQAPIGESQWRP LGFQNKALPSADNYSPPERQLL ACYWALVETEATPVITQRAHE QSGHGGRDGGYAWAQQHGLP LNKADLAVATAKCPISQQQRPI
5194	35562	A	5235	3	246	
5195	35563	A	5236	3	841	
5196	35564	A	5237	1	746	RDLDLFSPLPDITLAVHYVDGIM LIGSSEGEVASTLDLLVRHLHA RGWEINLTKIQGLATSVKFLGV QWYGACRDIPSKVKDKLLHLA PPTTKKEAQHLAASFEWGPEQ KGLQQVQVAVQAALPLGLYDP ADPMVLEVSVADRDVWVSLW QAPIGESQWRPLGFQNKALPSA DNYSPPERQLLACYWALVETE ATPVITQRAHEQSGHGGRDGG YAWAQQHGLPLNKADLAVAT AKCPISQQQRPI
5197	35565	A	5238	1	483	
5198	35566	A	5239	1	1908	
5199	35567	B	5240	1	2718	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
5200	35568	A	5241	522	693	LDFFLVFLQQFLPRPSSEJ*MLP GFPAAYGPVAAAAVAAARGSGRKYVGTGDSQA
5201	35569	A	5242	1	225	MGRNQSRKAENSKHESTYSPP KDHSSSQAMEQSWTENGFEKL GFRRKEALYYDLTASCQSQEL FQKWVSLCCPD*S*TYSPPKDH SSSQAMEQSWTENGFEKLGFR RKEALYYDLTASCQSQELFQK WVSLCCPD
5202	35570	A	5243	1	1129	PWISAPVPVDVVEGAMDSVT LSFGGLMLYFCAGWPPARRWC FPESISCGSMERDQWWGLQVA KRAGLAGGQSGRTVLRERVRIE IASTHIALAARHSDWRCCRNGR YPARGPAALQNFQRYTGIQHV HRIGMAERMWCDNRNRHTVS SSGGNRLPNPGPDRSCDNLKTC HTSHGSVMAETA VINHKKRKN SPRIVQSNDLTEAAYLSRDQK RMLYLFVDQIRKSDGTLQEHD GICEIHVAKYAEIFGLTSAEASK DIRQALKSFAGKEVVFYRPEED AGDEKGYESFPWFIKRAHSPSR GLYSVHINPYLIPFFIGLQNRFT QFRLSETKEITDPYAMRLYK\SL CQYRAFVNGGGEEKARGKPIL CRYGVGM

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5203	35571	A	5244	1	1753	MVDSLIRVGVMARGNAITLP VCGRDVKFTLEVLRGDSVEKTS RVWSGNERDQELLTEDALDDLI PSFLTGGQTPAFGRRVSGVIEI ADGSRRRKAALTESDYRVLV GELHDEQMAALYRLGNDYRPT SAYERGQRYASRLQNEFAGNIS ALADAENISHLHIHAEDTFLPFY LGKKDDVTYAIKPTCWPGLDII PSCLALHGIEIELMGKFDEGKLP TDPHMLGLAIETVAHDYDVIV IDSAPNLGIGTINVCAADVIV PTPAELFDYTSALQFFDMLRDL LKNVDIKGFEPDVRILLTKYSNS NGSQSPWMEEQIRDAWGSMVL KNVVRETDEVGKAVINHKKGK NSPRMVQSNDLTKAAYSLSRD QKRMLYLFVDQIRKSDGTLQE HDGICEIHVAKYAEIFGLTSAEA SKDIRQALKSLAGKEVVFYRPE EDAGDEKGYESFPWFIKQSEE/P QSGNFYTDTLGMAEFRRGGLR ATAGPRLSRTRDCQGTEKVHG KTVFDKTVP/WVPKRLKSPSCK NRWP*KMQKLSVCTASSPGQQ LSTVRVTQREICFPVVRREVLLL IGTLTQTRKGQISVRA
5204	35572	A	5245	337	1977	

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5205	35573	A	5246	145	1929	VSGVIEIADGSRRRKAALTES DYRVLVGELDDEQMAALSRLG NDYRPTSAYERGQRYASRLQN EFAGNISALADAECDNLKTCHT SHGSVMAETAVINHKKRKNSP RIVQSNDLTEAAYSLSRDQKRM LYLFVDQIRKSDGTLQEHGIC EIHVAKYAEIFGLTSAEASKDIR QALKSFAGKEVVFYRPEEDAG DEKGYESFPWFIK/RPSRGLYSV HINPYLIPFFIGLQNRFTQFRLS ETKEITNPYAMRLYESLCQYRK PDGSGIVSLKIDWIIERYQLPQS YQRMPDFRRRFLQGFCRFRNH HQTGFSPAGANQRGPLAATLSG PGGEGQSAVARLTGEKKNHPG AQYANRLSPRVGRFINAAGTTG FPTWKAGSERNAINDDVTYAIK PTCWPGLDIIPSCALHRIETEL MGKFDEGKLPTDPHMLRLAIE TVAHDYDVVIDSAPNLGIGTIN VVCAADVLIPTPAELFDYTSA LQFFDMLRDLLKNVDLKGNSN GSQSPWMEEQIRDAWGSMVLK NVVRETDEVGKGQIRMRTVFE QAIDQRSSTGAWRNALSIWEPE CNEISIGVSLDQDGGNSVLRK
5206	35574	A	5247	1	1383	
5207	35575	A	5248	1	1731	
5208	35576	B	5249	1	1290	
5209	35577	B	5250	1	3345	
5210	35578	A	5251	1	1959	
5211	35579	A	5252	3	2356	
5212	35580	B	5253	334	1710	

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5213	35581	A	5254	1	1302	MKLMETLNQCINAGHEMTKAI AIAQFNDDSPARKITRRWRIG EAADLVGVSSQAIRDAEKAGR LPHPDMEIRGRVEQRVGYTIEQI NHMRDVFGLRLRAEDVFPV NVSKSDDTLKINGVEDHKTIFD GDGKTYQNVQQFIDEGNYTSG DNHTLRDPHYVEDKGHKYLVF EANTGTENGYQGEESLFNKAY YGGGTNFFRKESQKLQQSACK RDAELANGALGIELNNDYTLK KVMKPLITSNTCDNLKTCHTSH GSVMAETAVINHKKRKNSPRIV QSNLDTEAAYSLSRDQKRM LFVDQIRKSDGTLQEHGICEIH VAKYAEIFGLTSAEASKDIRQA LKSFAGKEVVFYRPE/EDAGDE KGYESFPWFIKRAHSPSRRLYS VHINPYLIPPLYRVPNRVTFQRL SETK/EITHPYAMPLYESLCQYS
5214	35582	B	5255	1	1452	
5215	35583	A	5256	1	1323	
5216	35584	A	5257	1	1557	
5217	35585	A	5258	1	2259	
5218	35586	A	5259	1	2418	
5219	35587	A	5260	1	1218	MKLMETLNQCINAGHEMTKAI AIAQFNDDSPARKITRRWRIG EAADLVGVSSQAIRDAEKAGR LPHPDMEIRGRVEQRVGYTIEQI NHMRDVFGLRLRAEDVFPVI GVAHKERNQNISRYISNRLAR RECHDSPEEGTGNTSKERLQG RLPSRGLTESQEHLDDTRKQFW FEDFKDGLGPILKCDNLKTCHT SHGSVMAETAVINHKKRKNSP RIVQSNLDTEAAYSLSRDQKRM LYLFVDQIRKSDGTLQEHGIC EIHVAKYAEIFGLTSAEASKDIR QALKSFAGKEVVFYRPEEDAG DEKGYESFPWFIKRAHSPSRGL YSVHINPYLIPFFIGLQNRFTQFR LSETKEITNPYAMRLYESLSAS NYQRMPPDFRRRFLQVCVMEIN KQTSMLRSYI
5220	35588	A	5261	1	2028	
5221	35589	B	5262	1	1653	
5222	35590	A	5263	1	1446	
5223	35591	A	5264	1	1788	
5224	35592	A	5265	22	1893	

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5225	35593	A	5266	1	2144	MEKKITGYTTVDISQWHRKEHF EAFQSV AQCTYNQTVQLDITAF LKT V K K N K H K F Y P A F I H I L A R L M N A H P E F R M A M K D G F I E N M F F V S A N P W V S F T S F D L N V A N M D N F F A P V F T M G K Y Y T Q G D K V L M P L A I Q F F D M L R D L L K N V D L K G F E P D V R I L L T K Y S N S N G S Q S P W M E E Q I R D A W G S M V L K N V V R E T D E V G K D T G V R S K I S G V I K M P M G V A V V N C C T Y G S D Y R V W L A S W M M S Q W L H Y P E W Y R K E N K H K F Y P A F I H I L A R L M N A H P E F R M A M K D G E L V I W D S V H P C Y T V F H E Q T E T F S S L W S E Y H D D F R Q F L H I Y S Q D V A C Y G E N L A Y F P K G F I E N M F F V S A N P W V S F T S F D L N V A N M D N F F A P V F T M G K Y Y T Q G D K V L M P L A I Q F F D M L R D L L K N V D L K G F E P D V R I L L T K Y S N S N G S Q S P W M E E Q I R D A W G S M V L K N V V R E T D E V G K G Q I R M G T E L F F R L S E T K E I T N P Y A M R L Y E S L C Q Y R K P D G S G I V S L K I D W I I E R Y Q L P Q S Y Q R M P D F R R R F L Q C D N L K T C H T S H G S V M A E T A V I N H M K R K N S P R I V Q S N D L T E A A Y S L S R D Q K R M L Y L F V D Q I R K S D G T L Q E H D G I C E I H V A K Y A E I F G L T S A E A S M D I Q H A L K S F S G K E V V F Y R P E E D A G D E K / G Y E S F P W F I K R A H S P S R G L Y S V H I N P Y L I P F F I G L Q N R F T Q F L L S E
5226	35594	A	5267	1	1167	MNMNIKKIVKQATVLTFTTALL AGGATQAFAKENNQKAYKETY GVSHITRHDMLQIPKQQQNEKY QVPQFDQSTIKNIESAKGLDVW DSWPLQNADGTVAEYNGYNV VFALAGSPEDADDTSIYMFYQK CDNLKTCHTSHGSVMAETAVI NHKKRKNSPRIVQSNDLTEAAY SLSRDQKRMLYLFVDQIRKSDG TLQEHGICEIHVAKYAEIFGLT SAEASKDIRQALKSFAGKEVVF YRPEEDAGDEKGYESFPWFIKR AHSPSRGFYSVHINPYLIPFFIGL QNRFTQFRLSETKEITNPYAMR LYESLCQYRKIPDGSGIVSLK/ID WIIKRSQLPQSAFYQPFMGLRR ESFYFRWERTLGPLKSFSVKR GTEAGKFRLAALLVRL
5227	35595	A	5268	1	1395	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
5228	35596	A	5269	1	1375	MNMNIKKIVKQATVLTFTTALL AGGATQAFAKENNQKAYKETY GVSHITRHDMLQIPKQQQNEKY QVPQFDQSTIKNIESAKGLDVW DSWPLQNADGTVAEYNGYHV VFALAGSPKDADDTSIYMFYQ KIRRKNGPVSAFTTSDGKIRLFY TDYSGKHYGKQSLTTAQCDNL KTCHTSHGSVMAETA VINHKK RKNSPRIVQSNDLTEAAYSLSR DQKRMLYLFVDQIRKSDGTLQ EHDGICEIHVAKYAEIFGLTSAE ASKDIRQALKSFAGKEVVFYRP EEDAGDEKGYESFPWFIKRAHS PSRGLYSVHINPYLIPFFIGLQNR FTQFRLSETKEITNPYAMRLYES LCQYRKPDGSGIVSL/KIDW/IIIE/ RYQLPKVPSPEARKITRRWRIV KQRI*LGFLRLSEMPRKQGDY RTRIWKFEGLSNVLVIQLNKLI ICVMCLVRDCDVLKTYFHR
5229	35597	B	5270	1	1668	
5230	35598	A	5271	1458	2675	CDNLKTCHTSHGSVMAETAVI NHKKRKNSPRIVQSNDLTEAAY SLSRDQKRMLYLFVDQIRKSDG TLQEHDGICEIHVAKYAEIFGLT SAEASKDIRQALKSFAGKEVVF YRPEEDAGDEKGYESFPWFIKR AHSPSRGLYSVHINPYLIPFFIGL QNRFTQFRLSETKEITNPYAM/R IPLH*LFR*TLRQTKPDNSAGKC VKI**HTQNQRSGRSQND*RR GI
5231	35599	B	5272	1	1317	
5232	35600	A	5273	1	987	
5233	35601	A	5274	1	571	
5234	35602	A	5275	1	4161	
5235	35603	A	5276	1	1228	
5236	35604	A	5277	387	3466	
5237	35605	A	5278	1	6721	
5238	35606	A	5279	1	1651	
5239	35607	A	5280	5082	5879	
5240	35608	A	5281	1	231	NHLAVRRLTELSGGQRQRAFL AMVLAQNTPVVLLDEPTTYLDI NHQVDLMRLMGELRTQGKTV VD*VRDLNQVSRYC
5241	35609	A	5282	1	303	CLRILCPYPYIPLTEKTLA*PAL YTLELTADMAETCKQFLPEFSL TFSFQRGWKETEYAEVLERNF ERDRQLTYTAHGPHKADLRIQE SGVPYNEILVTL

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5242	35610	A	5283	1	273	TNSSVGPGDRLL*QTAAPHRGK LKVFFGACAGVGKTWAMLAE AQLRAQGLDIVGVVETHGR KDTAAMLEGLAVLPLKRQAYR GRHISEF
5243	35611	A	5284	66	1200	HILPAGHPTLRHSLFPHQQGRSS VQSALGAASGNGLKLVGRFEW GPSRRARSGYPDATGYDQ\PKPI SAAVKEFFGSSQLSQFMDQNNP LSEITHKRRISALGPGGLTRERA GFEVRDVHPHYGRVCPINETPE GPNIGLINSLSVYAQTNEYGFLE TPYRKVTDGVVTDEIHYLSAIE EGNYVIAQANSNLDEEGHFVE DLVTCRSKGESSLFSRDQVDY MDVSTQQVVSVGASLIPFLEHD DANRALMGANMQRQAVPTLR ADKPLVGTGMERAVAVDSGVS GGVVQYVDASRIGIKVTKTRCI RVKQVSTSTLPLFLMESNPLF WMAVLVSAGILGQWPIGLAD KFGRLLVLRVQVFVILGSIAM
5244	35612	B	5285	1	862	
5245	35613	A	5286	1	579	DPRD*RLKVAK*MVTLFGPQFV RELQQRGFDIFLDLKFHDIPNTA AHAVAAAADLGVWMVNVHAS GGARMMTAAREALVPRPDAP LLIAVPV*RSIKASDLVDLGMTL SPADYAERLAALTQKCGLDGV VCSAQEA VRFKQVFGQEFKLV TPGIRPQGSEAGDQRRIMTPEQ ALSAGVEYMENGRPGTQSVK
5246	35614	A	5287	484	978	GIVRIPHRLADIKCWRAVLVNY THYSYQANLCCANLE*ADLSGS VLDCANLQGVKMLCSNAEGAS LKLCNFEDPSGLKANLEGANLK GVDMEGSQMTGINLRVATLKN AKLKNCNLRGATLAGTDLENC DLSGCDLQEANLRGSNVKGAIF EEMLTPLHMSQSVR
5247	35615	A	5288	3	504	YRLSQSSSKSLVSRSWLNMRFIS SVMFMEPTSSSENRTSPSCSE MSSSEATLRSFFLGTTSPCRSM VGLQLVKSSQSSSVSSFSHVRL SQSSSKSKVSRLAGT*EGSEKRS FREEKVPCRLRLGLPESTLYAHC SV*SRTHVFSGTSHHSSKVAVG MSIVQMRKL

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5248	35616	A	5289	2	442	HVIWHMPRKTSKCRQLLCGSA SRNADTAARQSTCSSHRPPGKIP SLGPRRVPGCSSVPSSRGEQSTG SPAAPRCGDVTHTEASQEEQP* LRGTHGPASTPEQGTAKAKVR DRRAVVHPGKTGIPSAAG*KGR GRPGEPGAAVQVE
5249	35617	A	5290	151	1185	YVDQVTHITESPLPSVSYSAFG SLISAVDPVATIAIFNALHVEED TEKGHVRLTPASPSTFFFFSTE EKYAPGSCCRKAAVL*LLHISH QLSLDSPSLTVVIYVLKHIDLRK TPSCRHCEI*VGDHTAVLSVLFS PSLGIMAILFSGIVMSHYTPREA SP*SCCLFTVSSHTVCCHPGLRG AIPYALSLHLDLEPMEKRLIGT TTIVIVLFTILLGGSTMPLIRLM GLPGGAPRWQQLVAVGPPFLP AQGNTVESEHLSLSETEEEYEAH YIRRQDQLSLFN*N*SCLWPSPC LPPPP*TPHTKHPVASPPFHGPA PDALTAWLCLSTQDLHHGRIQ MKTLT
5250	35618	A	5291	5	198	VCGRQQSLEAGL*GAATPFAVF PRPWSAVRVKEYGYTRLHILN GTHIHQQVSDQAFQAQCHPP
5251	35619	A	5292	137	308	HLERTGPNLPPGARLATRPTTR LPAASPRGRDTPLPIPISFYSETE AKGEAPYIEPE
5252	35620	A	5293	612	1078	RPPEKKERGRRVRGRRGGGGK RRRRKRKKRKGSKGREDAAAA AAAAQSPRTRAPAPD*ERRPQP APSARAPPRLLPAPRRSRPAQV PPDSASPWAAAAGLALPPPQCP GGGARPLRLLPQPPAPGGTAR WEPRRPRPAAAPGLLQSPGPLP RQS
5253	35621	A	5294	515	817	LALPHLPSNLLLKGWLKLKA*S RPSRTPSFG*LSQWKHALKRLK PVITCLLQHGLKPINSPYNSLIL PVLKPKPKYKLVQDLRLINQIV LPIHPMVSQA
5254	35622	A	5295	1	951	
5255	35623	A	5296	1	1077	
5256	35624	B	5297	87	1423	
5257	35625	A	5298	29	234	
5258	35626	B	5299	77	327	
5259	35627	B	5300	1	235	
5260	35628	A	5301	2	2144	
5261	35629	A	5302	1	855	
5262	35630	A	5303	845	1057	

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5263	35631	A	5304	1	933	
5264	35632	A	5305	1	954	
5265	35633	A	5306	1	1603	MEAEKFHQMPVSRRTRKASG VIQSKSENLRTRGANSALKRL KPVITRLLQHGLLPINSPYNSPI LPVLKPKDPYKRFLAFYGWSPR SLIVDSCSKLEQHSTLSRVILVIY KGFCFRNHHQTGFSPAGANQ RGPLAATLSGPGGEGQSAVACL TGEKKNHPGAQYANRLSPRVG RFINAAGTTGFTGKRAVSATQ LMDFADFGTTITQDFRLLGQTS VDRLLQLSQGQAVKGNQLLPV SLVKRKTTLAPNTQTASPRALA DSLMQLARQVSRLESGQSSQLS SLRLTLPDLRLSPLDHHGRRAS GNSHSGSPKPPSCLPLISPHLNP QVWDISTPSLATDHMPITIPKLS N\TLTPLNLKCQYPIQHALKRL KPVITRVLQHGVLPKTPNSPYN PILPVLKPKDPYKLVQDLRLINH IVLLPIHPMVPNPYTLLSSIPPSTI HYSVLDLKHAFFTIPFHPSSQPL LAFTWTDPDHQAQQITWAVL PQRFPRTGPHYFNQAQISSSSV TYLGIIKITYVLSLPVSD
5266	35634	B	5307	1	874	
5267	35635	A	5308	144	539	
5268	35636	A	5309	1165	1639	PHPAVASRRGRAGPGGLSAPER TPSSELSPLSKGDLRKTHRTFSP Q*GDLRKTHRTFSTR*GDLRKT HRTFCTR*GDLRKTHRTFSTR* GDLRKTHRTFSTR*GDLRKTHR TFSTR*GDLRKTHRTFSTR*GDL RKTHRTFCTR*GDLQKTHRTFS TR*GDLRKTHRTFSTR*GDLRK THRTFSTR*GDLRKTHRTFCTR* GDLRKTHRTFSTR*GDLRKTHR TFCTR*GDLRKTHRNFTSTR*GD LRKTHRTFSTR*GDLRKTHRTF CTR*GDLQKTHRTFSTR
5269	35637	A	5310	235	453	SHWPWLCSSTSCSSQRSIVSSG MARGPFLRKRDLLFPPPPGSH GLELLEIIFHQGISQVHLLHLQ VWL*NLNVPDSSLPAENEATGP GFVPPPLAPVRGPLFPV\DIARGP FLRKRDLLFPPPPPGVAMFGASR DYFPPGDFPGPPAPFASMAFL N

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5270	35638	A	5311	2	2333	TGRGYCGDHESSFGAMEEPGA TPQPYLGLLLEELRRVVAALPE GMRPDSNLYGFPWELVICA VGFFAVLFFLWRSFRSVRSRLY VGREKKLALMLSGLIEEKSLL EKFSLVQKEYEGYEVESLKDA SFEKEATEAQSLEATCEKLNRS NSELEDEILCLEKELKEEKS EQDELMADISKRIQSLEDESK KSQVAEAKMTFQIFQMNEERL KIAIKDALNENSQLQESQKQLL QEAQVWKEQVSELNKKQVTFE DSKVHAEQVLNDKESHITLTL RLLKMKDWAAMLGEDITDDD NLELEMNSESENGAYLDNPPK GALKKLIHAAKLNASLKTLEGE RNQIYIQLSEVDKTEELTEHIK NLQTQQASLQSENTHFENENQ KLQQKLLKVMTELYQENEMKL HRKLTVEENYRLEKEEKLKSV DEKISHATEELETYRKRAKDLE EELERTIHSYQQQIISHEKKAHD NWLAAARNAERNLNDLRKENA HNRQKLTETELKFELLEKDPYA LDVPNTAFGRGSRGPGNPLDH QITNERGESSCDRLTDPHRAPS DTGSLSPWDQDRRMMFPPPG QSYPDALPPQRQDRFCNSGR LSGPAELRSFNMPSLDKMDGS MPSEMESSRNDTKDDLGNLNV PDSSFPAAKKEATGPGFVPPPLA PVRGPLFPVDARGPFLRRGPPFP

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5271	35639	A	5312	141	2788	GLRVPLSPSSPRSLRSGPLRLP GADSGSGPKAVCSPPFIVAPT RGYCGDHESSFGAMEEPGATP QPYLGLLLEELRRVVAALPEG MRPDSNLYGFPWELVICA VVGFFAVLFFLWRSFRS VRSRLYVGREKKLALML SGLIEEKSLLK KFSLVQKEYEGYEVESS LKDASFEKEATEAQS LEATCEKLNRSN SELEDEILCLEKELKEE SKHSEQDELMADISKRI QSLEDESKSLKSQVA EAKMTFQIFPMNEERLK IAIKDALNENSQ LQESQKQLQ EAEVWKEQVSELN KQKVT FEDSKVHAEQ VLNDKESHIKTLTER LLKMKDWAAMLG EDITDDDNLELEMN SESENGAYLDNPPKG ALKKLIHAAKLNAS LKTLEGERNQIYIQL SEVDKTKHEELTE HIKNLQTEQASLQ SENTHFENENQKL QQKLVMTELYQEN EMKLHRKLTVEENY RLEKEEKLSKVDEK ISHATEELETYRK RAKDLEELERTIHSY QGQIISHEKKAHD NWLAAARNAERNL NDRKENAHNRQKL TETELKFELLEKDP YALDV PNTAFGREH SPYGPSPLGW PSS ETRAFLSPPTLLE GPLTLSPLLP GGGGRGSRGPGN PLDHQITNER GESSCDRLTDPHR ALSDTGFLSPPWDQ DRRMFP PPGQSY PDSALPPQ RQDRFCSNSGRL SGPAE
5272	35640	A	5313	217	447	FQRM SGL*GYSPPLGGQ PAL*ECQGAADSAGG RGLDSERSLGR PAASGPNTALGWQA QPWS*QAGPELPRAE FLQA
5273	35641	A	5314	3	287	TLRNRHRELRTCLSGP GLGLPTQVSVVAGGCCV CPSSSQSPVPRPPAL SAAPWHSHRAGCPPS GGGL*PQRPLILWNQ PLSNTLLEKELAPPPAH
5274	35642	A	5315	3	468	ALARSPAG*PQSPDGD LCFRHRKGERRPAAP AGQCPAGRQRHVPA AGRDGKPGRAPGADR* AGPILHLYHLPAPCGG GTPGDSNPRRAPAQ RSE*CTPPPPQ*RNNR KPS TRAGLLLPS*H VQLSGGLTLCPGDRV S*WPQGVLAAPGPGPCT HL
5275	35643	B	5316	64	288	

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5276	35644	A	5317	73	265	NGRTSRCFSPGKH*EYCSGTFH PLQVVGKIYSNLDKIL*ASRAR WGLCSRKPGYWSCTQPPTSS
5277	35645	A	5318	125	461	
5278	35646	A	5319	298	593	LGVEVEPVTGGDAVIGASHDAF LQVNIESIVPEHSTRCKLLGKFI RIWIKYFRHLVHGGGSAPVSLV TGPVHGDSLLGPVAPEPPRVVE PARQVRAHAVVVAGPLRRGRG LGRHRLRARSQ*GMPQSVRGA CGAQGHGPAGEDQRLPRERG PAGQVQQPGVVPGLQDPEGCL RVQDQ*PGLREQSPHRARDA*S ILSKFE*IFPTTCSGWNVPEQYS QCLPGEKHRDWPR*LHLL*PA QLPPPVTSTGHPSAIEGLETPL RSPLTPGPPGKSIIPHPQSPDCD GTDCAAFPENIIRLSRKICKRG
5279	35647	A	5320	1124	1835	HSLHFPKFPSFLTLTLGLLM AVPPGLITTHQQRQAML*YKPL ARLLEPLISFSPWKSILKEITSQC SICYSTTPQRLFRPPFPPTHQTR GFAPPR/HWQIDITHMPQVRKL KYLVLVDTGSKKATVVISSLL SDIIPRFGLPSTIQSDNGPAFISQI TQAISLALGIQRTGLLKTHLT NLSHQLKKDWTILLPLSLLRIQ ACPRNATGLHSDG/VGPKLLPG SPFQLHHTWDSP
5280	35648	A	5321	1	1758	
5281	35649	A	5322	1	1967	
5282	35650	A	5323	76	1908	

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5283	35651	A	5324	524	2144	QSDLSASQHGLFPLATEVRSSG AASCPDSDSICPAPTAPGRATP PQANCWASEGTLRYQALPGNR APVSQVSQAGGANLCVQQPKK HLTNFKSGKRPLFTLFSNLQGP RSRPVAFLSKQLDLTVLGWPSC LRAAAAAALIVLEALKITNYAQ LTLYSSHNFNQNLFSSSHLTHILF CSPGSFSCTHSLLSLPQLPIVPGP DFSPASHIILDTPDPHDCISLIH LTFTPFPHISFFPAPHPDHA*FIN GSSTRPNRHTPAKAGYAIVQVT SPPLKTSHFLSIVEIYPQGNFNS VFHLLFYYSSGIIQAPLLSLHIKL RDLPPPRTGKSALLNMPVRVKL KYLVLVDTGSKKATVVISSLL SDIIPRFGLPSTSIQSDNGPAFISQI TQAISLALGIQRTHGLLKTHLT NLSHQLKKDWTILLPLSLLRIQ ACPRNATGLHSDGEARSSFAQH HFNFIHTGTVPDVFVPILQLLNE DFEDPCLGYLPSPEISICLEPTSW SKDRSCSSGEEGSAGQTVTGDL HKAQTPELDQPASLNCPLD
5284	35652	A	5325	1	420	RTRGGEKE*EEKQRSRR*RIK*E EEEK*RRSRGAGDKG*NERRRR NRGEPVEKEEDDRRRKRQWRR GEEEKRRRRGRNCGGGGEEKE DGRRRRLPCFLLPSLLVSLW LVSFLPCVFGFGAPAVVFARF RGLRAFCRF
5285	35653	A	5326	2	467	
5286	35654	A	5327	269	777	
5287	35655	A	5328	2443	2627	VGFFFFFWWGERGTGSYSVTQ ARVQ*YDLGSLQLLPPSFKGFS CLSLPGSWYYRHGPPRLG
5288	35656	A	5329	57	394	
5289	35657	A	5330	33	311	HNTLPKTKPWFQEPGDEEPQQE EPPTESRDPAPRLPRSP*SADPP WRSQRPQGLTRPPPEPLRPHGS PPAHLSLFCQRSCPGPQERPHPS TM
5290	35658	A	5331	226	406	
5291	35659	B	5332	51	90	
5292	35660	A	5333	1	348	PPSQRV*GWHMRQGGGRQHAQ PVLSQQGLTAGHCHHQHCRRP LACDVRPVVYEKVS RDHGLVS GQHN/PAPESQGQSTSPPRHTGR KQARAGGEKKVTS DPANTAQH NPNTGSRGRP
5293	35661	A	5334	109	380	

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5294	35662	A	5335	448	724	WPSRSALAAAGGRTAPTPrSRAG PPAR*RAGRESARGTS*GIRPRS QPARRPCPPAPVGRGLPPGPAP PPPRAAPREPPRCRAAAHTSRP AGS
5295	35663	B	5336	1	1554	
5296	35664	B	5337	99	366	
5297	35665	A	5338	1	714	
5298	35666	C	5339	391	689	
5299	35667	A	5340	2	614	
5300	35668	A	5341	2	461	
5301	35669	B	5342	45	1148	
5302	35670	A	5343	215	849	IKRLPLMKRMWL*LQPESLEIA GILVQ*MIE*QPKKGTNSIPVSK PSP/VVQKPNGQWRQVQDLRLI SDAVIPLYPAVSNPYTLSSQILE EAEWFTVLDLKDFAFFCIPLRSD SQFLAFEDPTDHTSQLTWTVF TQGFMDTPHLFGQSLAQDLGH FSSPGTLVLQYVDDLLAKQQA TLDLLNFLANQGYKLSKLKAQ LCELLVFSSCARMHS
5303	35671	A	5344	1	1035	MGQVWALVRSTLELFTDDEE EGEYDEVTEEVTEQVYLPKA KVAQEEVHPYPSAPPHYFFEE KEWPDPPDLSFLEDGRKVVAP VTEQHLERLLSVLFRQEFSLD ERDDAVEQLRGVCIRAWKITS GGEQYPSFSAVKQGPKELYADF IAWNLLRQESLKKVISDSAAQD IVLQLLAFGNVNLDCQAALRPI RGKAHLVDYIKACDGIGAKQD SERFAFTIPVNNLQPAKHFIY FTDGSSNGKASYSGSKGQNQQ PIWILSRHLKPYHEPDAKEEIPG G/CPRTPLWLQPCRD*C*GGP*/P VTSNTR*TQPPTWGQIKLSQM VEENLRKAGQLVTMTVYWN
5304	35672	A	5345	1566	1767	KGGWSQRHSQACYTCKSGH WAKECPQPGIPKPRPICVGPH* KSDCSTHLAANPRAPGTLAQGS L
5305	35673	B	5346	1	3429	
5306	35674	A	5347	1	1776	
5307	35675	A	5348	1	933	

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5308	35676	A	5349	1	1743	MGKVVAVVRSTLELFHTDDEE EGEYNEVTEEITEQVYLPAAKAK AVKEREQRGNITATFEPFPFKLL KEFKQAINQYGPQSHFVMGLL KNVAVSSQMIPTDWDALTQAC LTPAQFLQFKTWWAHEASIQ ACNAQAQPQINITTGQLLGVGG WAGLDAQVVMQDDAIEQLRG VCIRAWEKIPLCGEQYASFSAIK QGPKEPYVDFIAWLQESLKKVI ADSAAQDIVLQLSAFDNANPDC QAAL*PIRGNAHLVDYIKACDG IRGNMHKATLLVQAMAGLRVD KGNPLLPGACFNCCKHGHTKQ ERRKKSVSQAARWGKRKTADP EICPKCKKGKYWANQCHSKFD KDGTLISGNAMRAEQDCEWFT FTIPAVNNLQPAKHFRFTDVS SNGKASYSGSKGGQARVQLFE NASVRATNSDLPQSSLWCRRKT SVSVAVLVSATIPISRVQGPSQV LGQGEKQTNQNVVPNPYTLIS QIPEEAKWFTALDLKDAFFCIPL HSDSQFLFAFEDLTDHTSQLTW TILPQGFRDSPHLFGQALAQDL GHFSSPGTLVLQYVDDLLLAT SEASCQATLDLFLSFLAN
5309	35677	A	5350	1	1085	
5310	35678	A	5351	1	3105	
5311	35679	A	5352	1	5172	
5312	35680	A	5353	41	324	
5313	35681	A	5354	18	270	KLSQVCIDLL*IREGERDMYPG WAKFSPSPYSLKGT*PIAQGVW SFGDFFYC/IPSTLPTPKSWRLFE SPFPESLTPVSLVWWPC
5314	35682	A	5355	80	384	SNNRTEGAWGKCQLMSS/PLTE PQVTLTIDSQEIDFLDGTGA VLSLSCPEQLSSRSVTI*GILGQPV TRYFSHLLSCNWETLLFSAFL VMPESTPTLLGR
5315	35683	C	5356	99	317	
5316	35684	A	5357	388	476	KVCPRPCRTSM/LPIRII*KLPQV CLDLL*IIEGEGDMYPG*AKFPS PYCLKGT*PGTIAGSWARGVSA AASPSYSSPSY

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5317	35685	A	5358	254	849	LQPESLEIAGILVQ*MIE*QPKK GTNSIPVSKPSP/GVQKPNGQW RQVQDLRLISDAVIPLYPAVSNP YTLLSQILEEAEWFTVLDLKDA FFCIPLRSDSQFLAFEDPTDHT SQLTWTVFTQGFMDTPHLFGQ SLAQDLGHFSSPGTLVLQYVDD LLAKQQATLDLLNFLANQGY KLSKLKAQLCELLVFSSCARMH
5318	35686	A	5359	1	909	
5319	35687	A	5360	153	436	CFCCCVENKPRNLQRTTKTPR LSVMSPPSSCRGRGIWPNPGTC/R PSPSLI*SRSRQTWRITTPCQQG NKTGQRMNLTN*QEASEGG* *QTPLS
5320	35688	A	5361	1	1632	
5321	35689	C	5362	1	675	
5322	35690	A	5363	604	1047	SNNRTDNPTSVAYLSKETDVV AKGWPHCLWVVVAVAILVLEA IKIIQKGDFTVWTS HDVNGILG AKGNSWLSDKRLLRYQALLLE GPVLQIHTCVALNPAIFLPEDGE PIKHDYQQIVAQTYVT*EDLLE VPLANPDLNLYTNGSSFV
5323	35691	A	5364	749	1002	QLKKGTSNLLVSKPSPVWIPTG TLTQIMGTGVANIC*PVF*KD*G ELGKMNYAMMSTITQGKEENP AFLKWLWEALRKYTPLSP
5324	35692	B	5365	114	2309	
5325	35693	A	5366	413	1157	
5326	35694	A	5367	105	478	YGHCCYDHRICCFPPATEQKVC PCAAQG*PL*LRGDDPEMSVYI *QLPLYSSDLLSAANEVQILAF FQGDVSFFPVATTTDTLSVTFN FPFNYQGVNDFDFDFKQFLHSS FDFCFGRVFSNFE
5327	35695	A	5368	531	1087	RLQPPGAPVEDITRPVSAKPRD ADRNSTGCYLV*LQHQRQTES GRQLSGL*GPCNGVH/ASLYR TSAMFAERFGSYSRRSTTAGIPS LLRLKSTIRSDRSRRKAQRKR CGQVMPQHRRSIRPLLQPIPSL NRNLHRSRHSRNRWSRLNRR LKHHLRRSQNRSRWKKKLHR RVKPMCLCNWVR

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5328	35696	A	5369	544	1381	VNPALQVLVVAITPPPSLPSPSCI RVLTRVSNAIAAKPLCLAVCAV VEGGRIRALVAVAAWGAGVTG GPAGLIACGPVSPSVIRGQFRHA GISFFLYAIGGEMVPAVRRQNH TPA*HKRFAKAFQLAHPNAVN AEHFAGGDRHLFSLNQGCVV KHHVRRDITFIGYRFTQFA
5329	35697	A	5370	81	863	AYGNPVEIAGGARQAGVNF VFRPRFSRRWRRISGETCKLWW RRWRSASINQTFASWSTLIF RAISNPIIRKPDAPGVMACPRKR CCFTIRLIWRGCAVVWKRSE GQLQDIERHKLNAMGAFAEAQ TCRRLVLLNYF/GRRASGAVRE LRYLPRSAETVRRFNRCSDCP HHWSCSAVWDGLCGGSDSCC GVSRARLFASPVNLPITGEIPER GFHPFCGRRTENGKNHPRNLFI WRSNCSVLPVKVMSLCSSTPCP
5330	35698	B	5371	12	273	
5331	35699	A	5373	145	336	SEEEEEEEEEEEEEEEEEEEEE E*EEGESAIICAKVCISVFPRRK NELNMAITPNTIPKLNHW
5332	35700	A	5374	294	657	VAPGDRHAFHGGGSGLSPELTL PQTQCCAQATVQGLEGRSWS QSGTSSLSPWSHTSLACPQKEE EEEEEEEEEEEEEEEEEEEE EEEEEEEEEEEEEEEEAKTQ*KSG QKI*TDSPQKK
5333	35701	A	5375	2	588	SRPGITGSTISYGDPGHGAGPPG ADLGPARSLKPERAAGAQLAA GEARQSGDPGLPGGPGHSLGTA PC*VDKGWGHVPSTVHHQRQP QPGGLRAPGTALLAGTQPSHPA AGPWEPQQRGVRLGGRRDS *VGGG*QHNKALWGPR*PHT EQKPDRKLSRIPLRAAGGEKRG CGCDRAGCLVLGPPQLPAQGL
5334	35702	A	5376	1	445	SLSHRAGGGGGVGGGAVCLFS PPRTKRESAPESPSVLGHSPVP S*GAPSTRGSVSRLTSGGOTHER SNGLTCHRNQAGTGPSALRSGR P*CLSRANPPGSKRSAGPVHEE RT*PCRLSGSAGITQ*DGN*KAG PRVPEAPERGCATC

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5335	35703	A	5377	3	313	QNDEVAFRKLKLIIEDVQGKSY LTNFHGMNLTNDKMCMSVKK WQTVIEAHVDVKTNGYLLCL FCVGFTKKCNNQIWKTSLF*QQ SNMEDFFVLTGTGIIISHLHEPFLV VTDYDQ
5336	35704	A	5378	45	764	TSFLTGGGKKS\KKKVDPFS KKD/WL*YVKHRAFNIRNIGK DVGSPRTQGTKIAS\DLKG\RV FE\VSLADLQNDVAFRKFKLIT \EDVQK\NC\LTNFHGMDLTP* QKCCSMVKKM/WQTM*SSPL MVKT\NDGLLASVCSCVGF\TKK \RNNQIRKTSYAQHQQVRQIRK KMMEIMTREVQTN\DLKEVVNK LIPDSIGKDIEKACQSIYPLHDVF VRKVKMLKKPKFELGKLMELH GEGS
5337	35705	A	5379	3	501	SSARFVSSSSGGYGGGYGGVL TASDGLLAGNEKLTMQNLNDR LASYLKVRALAAKILSDMRS QYEVMAEQNRKDAEAWFTSRT EELNREVAGHTEQLQMSRSEV TDLRRTLQGLEIELQSLSMKA ALEDTLAET/EGDVRADSERQN QEYQRLMDIKSRLEQE
5338	35706	A	5380	1	716	AQLKVFWYWPAGAGGLRR FKHY\YTPFKDCRDKILGATIKN SRIVLQIDNAGLAADD\RTKFE TEQALRMSV*ADITGLRRVLDE LTLARTDLEMQIEGLKEELAYL KKNHEEEISTLRGQVGGQVSVE VDSAPGTDLAKILSDMRSQYEV MAEQNRKDAEAWFTSRTEELT REVAGHTEQLQMSRSEVTDLR RTLQGLEIELQSLSRLWGFC PLEGVFWVEGWEGRDPYPRLF
5339	35707	A	5381	3	832	
5340	35708	B	5382	141	1067	

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5341	35709	A	5383	3	1316	GVAPSVLRLAMTSYSYRQSSAT SSFGLGGGSVRFPGVAFRAP SIHGGSGGRGVS SVSSARFVSSSS SGAYGGGYGGVLTASDGLLAG NEKLTMQNLNDR LASYL DKVR ALEAANGELEV KIRDWYQKQG PGPSRDYSHYTTIQ\ELRDKIL GATIENSRIVLQIDNARLAADDF RTKFETEALRMSVEADINGFR RVLE*S*TLAQEPNLEDARIEG LKEE\LAYLKKNHEEEISTLKGP KCEAQV\SVVEVD\SA\PGTRSSPK ILSDMRS\QYEVMAEQ\NRKD\A EA\WFT\SR\TERIETREVA WPHR SSFQMSQAPRLDLAAATPQGS *DLSCQS QLEPLKAALGKTPLA ENRKAIRFGNPQLAPYPQALDS AVI*KPQLG/DIVAKLDSSTGRI QEYQRL\MDIKFARLEQEIAHP NRSLA/LEGQEDHYNNL FASK
5342	35710	A	5384	23	279	GCLRGS LERCGLCK\SLHEISG PESRVQ\QPLSSREEEEEEEEEEE EEEEEEEEEEEEEEEEEEEEERKK ECSKAQCKHFPLSEVL
5343	35711	A	5385	1	507	MEKNEKEQEEEEKKEKNSKKK EEEEEEEGGEEEEEGEGGEE EEEEEEEEEEEEEEEEEEEE EEEE/EEEEEEEEEEEEEEEE EEEEEEEEEEEEEEEEKKKKKK KKKKKKKKKKKKKKKKKKKK RKKKKKKEEEKVVEEDEFIWF LGNSLYFPSFSHFAWSQIPSRD EGERRLRVNSMIMDFTSNTNH
5344	35712	A	5386	3	259	
5345	35713	A	5387	53	387	LEEEKEEEKKEEKKEEEEEEE KE/DEEGEEGEGGEGEGEGEE EEEEEEEEEEEEEEEEEEEE EEEEEEEEEEEEEEEEEEEE EEEEEEEEEEEEEEEEEEEE EEEEEEEEEMIVLKIIIVAKQLF
5346	35714	B	5388	1	1446	
5347	35715	A	5389	3	122	
5348	35716	A	5390	239	432	CLWLFQEEEEEEEEEEED*EEE EEE/EEEEEEEEEEEEEEEE EEEEEEEEEEEEEEEEEEEEKI FLGHRVGI
5349	35717	B	5391	1	1269	
5350	35718	B	5392	44	244	

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5351	35719	A	5393	1	626	EEGEVEEEGEEEEEEEEEGEGEE EEEEEGEGEGEGEGEGEEEEEE EEEEEEEEEEEEEEEEEEEEEE EEEEEEEEEQEEEEEEEEEEEE EE\EEAAAAAASRDSHTSLEL TYWPPCPALRDTLVSNCSLSSL CTSGDSFHW*ETTIPAMSSCSH QHSLHQLGIIPRQILMRMASLM RRICEDHPATAEQ**HV*GPPD
5352	35720	A	5394	2	506	
5353	35721	A	5395	1	480	
5354	35722	A	5396	1	492	
5355	35723	A	5397	1	870	
5356	35724	A	5398	111	407	
5357	35725	A	5399	1	651	
5358	35726	B	5400	1	2427	
5359	35727	A	5401	571	966	SPFTNSRLTIFISFSECGQIAEYI LSQPFMVVRIMATEPPIINLQPGN FTLDIVSRDHTTAL*PGRQEONS VSKKKEEEEEEEEEEEEEEEEE EEEEEEEEEEEEEEEEEEEEEE EEEEEEEEEEEEEEEEEEEEEE EEEEEEEEEEEEEEEEEEKKKK
5360	35728	A	5402	1	1674	
5361	35729	A	5403	1	306	
5362	35730	A	5404	2	431	
5363	35731	A	5405	1	585	
5364	35732	A	5406	1	708	
5365	35733	A	5407	3	595	
5366	35734	A	5408	287	659	
5367	35735	A	5409	1	633	
5368	35736	A	5411	3	634	
5369	35737	A	5412	344	481	
5370	35738	A	5413	1	525	
5371	35739	A	5414	1	501	
5372	35740	A	5415	1	461	
5373	35741	A	5416	302	567	MLCCLEISSTRYPKSSLSSSKFH KSLGQGQNAASLFAKT*RESPL LQFPASSSSPSETTSAWTLFISL SAFLTAKFNKSLGGSKLSH
5374	35742	A	5417	251	844	NLGRGSQTSILDFCAPAGLIPCG SCQGLGLPHSEATARA VYWPL SAMAGVAGTQGTSLDSSLFA KT*QESPLLRFPTSSSSPSETTSA FILLFISLSEFLSKPFNKSLGGSK LSHIFVSSSEPSKLSQPLHMPIQ ARISSFTSGHTDDSTVLFVLLK LPLVPSQAFSLKPGSIVMLLSS WSDNFNIPSISDSDA
5375	35743	A	5418	1	1113	
5376	35744	A	5421	1	337	

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5377	35745	A	5422	2	680	
5378	35746	A	5423	144	373	
5379	35747	A	5424	1	597	
5380	35748	A	5425	3	3319	
5381	35749	A	5426	1	612	
5382	35750	C	5427	46	168	
5383	35751	A	5428	1	663	
5384	35752	A	5429	10	417	IAIMNDTVAIRTRKFMTNRLLE RKQMVIDVLHPGKATVPKTEIL EKLAQMYKTTDPVIFVFGFRTH CGGGKTTGFGMIYDSLDAEK NEPKHRLARHGLYEKKKTS*K QRQERTNRMKKVRGTAKANV VAG*KPNE
5385	35753	A	5430	67	263	GKTTG\FGMIYDCLDYAKKNE PKHRRARHGLYEKKKTSRKQR KERKNRMKKVRGTAKANVGA GKK
5386	35754	A	5431	2	537	TPGSTTTTKFPTASTSEDRSPIM ND\TVTIPH*EKFMTQPTYFRGN QMVI\DVLSPPGKGQDQCPKHK FGKKLAQNVPRPTD\VIFVFWI QNFIFGGGKTTG\FGMIYGFPGI YAKEKMNPDHRLCKDMGLVL RKEKGPSRKANGKGTARNRIG RKVPGGTGKGPNVGCWAKRR NEVSSS

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5387	35755	A	5432	1	2195	ARGLSMGH*FP/PHFQCALA*M PAPGRGPPPLPP/CPDAPPACA ATMERPEAGLRVAPRSPVQPGC TSVLPVAKRFNARILWLKRPQR QLWSLWRAQATVSLGGFHVM LSLQVHRINARVKEAWQLPPRF QMMYQKAWVLRQKPAAAVEP SQRNSPRAMLGGNVGLEPPPRV STRALPSGAVGRGLPPSRPKND TATGSLHPELGKAADIQFHPVR AATGASPCKSIGTELPAKALGAH VLLQCALDVGHGVEGELWSFK TRQPSDFSIFSPPFPFYSTKPPLS SWPIPNEPLGTTPRRGRGGAEG LLTSQCSHILNGLCFTGGINSNE CENVSRKKKMSEEF EANTMDS LVDMPFATVDIQDDCGIFFDVW KLRVNCQEILANRHPGRAMRK VVLTKTSWEGESLAVGKLPLK RLVSLDCQLRCLQCECGILIRQ HVVWLERTTGHWHPRSSQSCR LNTTSTALEHCNAFIYNTVCSH KLKDHSHDNGKSSGFLNPVAA PHSCIVMGHLTLLITTSYYTPLT KPDTPTLKKEGLISQDSSSLEV LLHTDPLGKRGTDPDRVDDDSL GKFPVTNSQARKRILEPDDFLD DLDEYCEDAPKHRGKGCDSA HKELDASNLEDQDKPYACDIC GKRYKNRPGLSYHYAHSHLAE EGEDKEDSQPTPVSRSEEQK SKKGPDGFALPNNYCNFCLGNS
5388	35756	A	5433	1	580	FSPLIHLILSGHSTCFREHRVGG KVTDDQDPKAEFFLVQNKMK SLPCLLLSTQTRQPSDFSIFSPPF PPFYSTKPPLSSWPVLNELLGTP PRRGGGAEG/PPHFPVG/GPGR GAPSPRRGGWPGGGLTPQPPS RTGRLAGRGADPPTSLPDGAA GRAGG*PHHLPGRGGWPGRG APHFPVGVAGQRRLFIC
5389	35757	A	5434	405	685	KVSHVYFYPHRPRNHPISQFFPH PSRLSIPQNRHCHHGSP/RNEPL GTPPR/PGSWPGRGAPHFPETFN HGRRWKGSRHVFTWPEQERE WGSATHF
5390	35758	A	5435	1	654	
5391	35759	A	5436	1	426	
5392	35760	A	5437	1	548	
5393	35761	A	5438	1	459	
5394	35762	A	5439	1	346	

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5395	35763	A	5440	1	1248	
5396	35764	A	5441	1	1257	
5397	35765	A	5442	1	1659	MGDFNTPLSTLDRSTRQKVNK DTQELNSALHQADLIDIYRSLH AKSTEYFFSAPHHTYSKIDHIL GSKALLSKCKRTEIITNYLSDHS AIKLELRINKLTQNRSTTWKLN NLLLNDYWIHDEMKAIEKMFF ETNENKDTTYQNLWDAFKATA SKTNKEKEKNQIDTIKNDKGD TTDPTEIQTIREYYKHLYANK LENLEEMDKFLDTYTLPRNLQE EVESLNRPIGTAEIVAIINSLPTK KSPGPDGFTAIFYQRYKEELHI NRAKDKNHMIIISIDAEKAFDKI QQPFMLKTLNKLIGDGYFKIIR AIYDKPTANIILNGQKLEAFPLK TGTRQGCPLSPLFNIVLEVLR AIRQEKEIKGIQLGKEEVKLSLF ADDMTVYLENPIVSAQNLLKLI SNFSKVSGYKINVQKSQAFLYT NNRQTESQIMSELPFTIASKRIK YLGILTRDVKDLFKENYKPLL KEIKEDTNKWKNIPCSWVGRIN IMKMAILPKVIYRFNAIPIKLPM TFFTELEKTTLKFIWNQKRARI AKAILSQKNEAGGITLP
5398	35766	A	5443	1007	1719	TEPKTKTT*LSQ*MQKKPLTKF NNPSC*KLSIN/IVLEVLRARIRQ EKEIKGIQLGKEEVKLSLFADD MIVYLENPIVSAQNLLKLLSNFS KVSGYKINVQKSQAFLYTNNR QTESQIMSELPFTIASKRIKYLG ILTRDVKHLFKENYKPLLKEIK EDTNKWKNIPCSWVGRINIVK MAILPKVIYRFNAVPIKLPMFTF TELEKTTLKFIWNQKRACIAKSI LSQKNKAGGITLP
5399	35767	B	5444	1	1020	

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5400	35768	A	5445	1	1576	MDKFLDTYTLPRLNQEEVESLN RPITGAEIVAIINSLPTKKSPGPD GFTAIFYQRLISNFSKVSGYRIN VQESQAFLYTINRQTESQIMSA LPLTIASKRIKYLGIQLTRDVKD LFKENYKPLLNEIKEDTNKWK NIPCSWVGRINIVKMAILP/KEL EETTLKFIWNQKRARIAKSILSQ KNKAGGITLPDFKLYYKATVT KTAWYWYQNRDRDQWNRTEP SEIMPHIYNLYLFDKPEKNKQW GKDSL FNKWCWENWLAICRKL KLDPFLTPYTRINSRWIKDLHV RRKTIKTLEENLGNTIQDIGMG KDFMSKTPKAMATKAKIDKW DLIKLSFCTAKETTIRVNRQPT KWEKIFATYSSDKGLISRIYNEL KQIYKKKTNNPIKKWAKDMNR HFSKEDIYAAKKHMKKCSSSLA IREMQIKTTMRYHLTPVRMAII KKSGNN/R/CAPGTPERQNHSL WKGS*SQEPSGLAQWIPLPWS AS*DPLA*NSCCQHSLKSTWD AQACARKLRTLIGYRNCQLE
5401	35769	A	5446	1	984	
5402	35770	A	5447	1	1563	
5403	35771	A	5448	1	1449	
5404	35772	B	5449	1	1605	
5405	35773	B	5450	1	1569	
5406	35774	A	5451	1	690	MSELPFTIASKRIKYLGIQLTRD VKDLFKENYNPLLNEIKEDTNE WKNIPCSWVGRINIVKMAILPK ATVTKIAWYWYQNRDIDQWN RTERSEIMPHIYNLYLIFKKPEKN KQWGKDSLFDKWCSENWLAIC RKLKLDPFLTPYTKINSRWIKD LNVRPKTIKTLEENLGITIQDIGI GKDFMSKTPKAMATKAKIDK WDLIKLKFCTAKETTIRVNRQS TKWEIISLD
5407	35775	A	5452	1	1919	

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5408	35776	A	5453	1	1416	MIILIDAEKAFDKIQPFMLKTL SKLGTGTYLKIIRAIYDKPTAN IILNGQKLEAFPLKTGTRQGCP SPLLFNIGLEDLARAIRQEKEIK GIQLGKEEVKLSLFADDMIVYL ENPIVSAQNLLKLISNFSKVSGY KINVQKSQAFLYTNNRQTESI MSELPFTIASKRIKYLGIQLTRD VKDLFKENYKPLLKEIKEDTNK WKNIPCSWVGRINIVKMAILPR DIDQW/NRTEPSEIMPHTYNYLI FDKPEKNKQWGKDSLPHKWC WENWLA VCRKLKLDPFLLPYT KINSRWIKDLNIRPKTIKLEEN LGITIQDIGVGKDFMSKAPKAM ATKAKIDKWDLIKLSFCTAKE TTIRVNRQPTTWEKIFATYSSD KGLISGIYNELKQIYKKKTNNPI KKWAKDMNRHFSKEDIHAAK KHMKKCSSSLAIREMDIKTTMR YHLTPVRMAIIKKSGNNRCWR GCGEIGTL
5409	35777	B	5454	1	810	
5410	35778	B	5455	1	1277	
5411	35779	B	5456	130	1701	
5412	35780	A	5457	1	1395	
5413	35781	A	5458	3	1646	
5414	35782	A	5459	1	759	
5415	35783	A	5460	2821	5781	
5416	35784	B	5461	1	2025	
5417	35785	A	5462	1	3663	
5418	35786	B	5463	1	2265	
5419	35787	A	5464	1	2241	
5420	35788	A	5465	1	2478	
5421	35789	A	5466	1	2067	
5422	35790	A	5467	1	2988	
5423	35791	B	5468	1	2061	
5424	35792	A	5469	1	2141	
5425	35793	A	5470	1	400	
5426	35794	A	5471	2	2507	
5427	35795	A	5472	1	768	
5428	35796	A	5473	1	1527	
5429	35797	A	5474	1	1293	
5430	35798	A	5475	1	1038	
5431	35799	A	5476	1	1572	
5432	35800	A	5477	1	1290	

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5433	35801	A	5478	1	524	MSELPFRIASKRIKYLGIQLTRD VKDLFKENYKPLLNEIKEDTNK WKNISCSWVGRINIVKMAILPK/ VKHR/FSACLQSLGRSGTTGLE ALAM*PIWPQEVE*VKFPALPS GASSTKGGCVP*QIQVEERLLS WKL*QA*TSWYQRQRSDSSL RERK*PKSIQRNVRRLSYYP
5434	35802	A	5479	2	1547	
5435	35803	A	5480	1	2376	
5436	35804	A	5481	1	1824	
5437	35805	A	5482	1	1071	
5438	35806	B	5483	1	1839	
5439	35807	B	5484	1	1368	
5440	35808	A	5485	1	1884	
5441	35809	A	5486	1	1053	
5442	35810	B	5487	1	2532	
5443	35811	A	5488	1	2373	
5444	35812	A	5489	1	2361	
5445	35813	A	5490	1	2274	
5446	35814	A	5491	1	1686	MASPGPAPTASPKIHSELLTATR EAQRHHPVPRGQDLVTSESFSL SFCFSAIFIFELLGSNSEGVTDL RLWLCQPAPRCGEWTYNPLEQ CCDDGVILDNLNQLTRLCGSSCTF WPCFQHCCLESLSQNTTVVRF KVPGMKPDCKSSPITRICAQAG VQISNFSKVSGYKINVQKSQAF LYTNNRQTESQIMSELPFTIASQ RIKYLGIQLTRDVKDLFKENYK PLLKEIKEDTNKWKNIPCSWVG RINIVKMAILPKVIYRFNAIPIKL PMTFFTELEKTTLKFIWNQKRA LIAKSILSQKNKAGGITLPDFKL YYKATVTKTAWYWYQNRDID QWNRTEPSEITPHIYNYLIFDKP EKNKQWGKDSL FNKWCWENW LAICRKLKLDPFLTPYTKINSRW IKDLNVRPKTIKTLEENLGITIQ DIGMSKDFMSKTPKAMATKDK IDKWDLIKLSFCTAKETTIRV NRQPTKWEKIFATYSSDKGLIS RIYNELKQIYKKKTNNPIKKWA KDMNRHFSKEDIYAAKKHMK KCSLSLAIREMQIKTTNQNHM RYHLTPGHG
5447	35815	A	5492	1	1872	

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5448	35816	A	5493	195	1494	PPGQHLQRRCLLRVSGFSENAK KGMLEVLARAI/RQEKKIKGIQS GKEEVKLSLFADDMIVYLENPI VSAQNLLKLISNFSKALGYKISV QKSQAFLYTNNRQTESQIMSEL PFTIASKRIKYLGIQLTRDVKDL FKENYKPLLNEIKEDTNKWKNI PCSWIGRINIVKMAILPKVIYGF NAIPIKLPMTFFTELEKTTLKFI WNQKRARIAKSILSQDKAGGI TLPDFKLYYKATVTKTACNSN GSQSPWMEEQIRDAWGSMVLK NVVRETDEVGKGQIRMRTVFE QAIDQRSSTDTSLSTPAAPMVD SLIARVGVMARGNAITLPVCGR DVKFTLEVLRGDSVEKTSRVW SGNERDQELLTEDALDDLIPSFL LTGQQTPAFGRRVSGVIEIADG SRRRKAAALTESDYRVLGGEL DDEQMAALSRLGNDY
5449	35817	A	5494	1	1845	
5450	35818	A	5495	1	2109	

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5451	35819	A	5496	1	2535	MKSGHPEKEQDNSDVQETREIT IRGLLCTALMRHSTGAIAYLGV LSGSASLKLAVPLRCCEGDKD AGHPLETQTALCERGRGARS LV GNTIMTSQPVPNETIIVLPSNVIN FSQAEKPEPTNQGQDSLKKHLH AEIKVIGVNLIQNVLERGWGKC QEMIVVLGLDICRPFVSRVSEE GRMGQRGEEDANS�DFPPASLL CLICQEQGVNGESCSVPGMYH REIVPVYEVLSVITGLQIQVFSG KEADSVIKRSIGWGPFFKPRTK DKNHMIISIDA EKAFDKIQQHF MLKTL SKLGIDGTYLKIIRAIYD KPTANIILNGQKLEAFPLKTGTR QGCPLSPLLFNIVLEVLAIRQ EKEIKGIQLGKEEVKLSLFADD MIVYLENPIVSDQNLLKLISNFS KVSGYKINVQKSQAFLYTNNR QTESQIMSELPFTIASKRIKYLGI QLTRDVKDLFKENYKPLLNEIK EDTNKWKNIPCSWVGRINIVK MAILPKVIYRFNAIPIKLPMTFF TELEKTTLKFIWYQKRARITKSI LSQRNKAGDITLPDFKLYYKAT VNKTAWYWHQNRHIDQWNRT KPSEITLHIYNLFFDNPDKNKK WGKDSL FNKWCWENWLAICR KLKLDPFLTPYTKINSRWIKDL NIRPKTIKTLEENLGITIQDIGMG KYFMTKTPKAMATKAKIDKW DLIKLSFCTGKETTIRVNRQPT
5452	35820	A	5497	3	2284	
5453	35821	A	5498	1	1245	
5454	35822	A	5499	1	1140	
5455	35823	A	5500	383	1185	
5456	35824	A	5501	1	3159	MLEVLAWAVRQEKEIKGIQLG KEEVKLSLFADNMTVYLENPIV SAQNLLKLISNFSKVSGYKVSG QKSQALLYTNNRQTESQIMSEL PFTIASKRIKYLGIHLTRDVKDL FKENYKPLLKEIKKDTNWKNI PCSWVGRINIVKMAILPKDIIQE NFPNLARQANIQIQEIRKTPQRY SSRRATPRHIVRFTKVEMKEK MLRAAREKASHHTYSKIDPILG SKPLLSKCKRTEITNYLSDHSAI KLEFRIKNL

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
5457	35825	A	5502	583	2515	MQKKPLTKFNNPSC*KLSIN*LI SNFSEVSGYKISVQKSQAFLYT NNR/QESQIMSELPFTIASKRIKY LGIQLTRDVKDLFKENYKPLLK EIKEDTNK WKNIPCSWVGRINI VKMAILPKAIYRFNAIPIKLPM FFTELEKTTLKFIWNQKRARIA KSILSQKNKAGGITLPDFKLYY KATVTKTAWYWYQNRDIDQW NRTEPSEITPHIYNLIFDKPEK NKQWGKDSL FNKWCWENWLA ICRKLKLDPFLTPYTKINSRWIK DLNVGPNTIKTLEENLGITQDI GTGKDFMSKTPKAMATKAKID KRDLIKLSFCTAKETTIRVNR QPTKWEKIFTTYSSDKGLISRIY NELKQIYKKKTNNPIKKWAKD MNRHFSKEHIYAAKKHMKKCS PSLAIREMQIKTTMRYHLTPVR MAIHKSENNSLLAAGGGNRRT ANVVAHG FANLLTLDKKT LQEI LVHYPD SERILMKKARVLLKQ KAKTAEATPPRKDLALLFPPE ETPKLFKTL LGTGKASLARLL KLKREQAAQKKENSEGEEEE KENEDKQKENEDKQKENEDKG KENEDKDKGREPEEKPLDRPEC TASPIAVEEPPHSVRRTVLP RGT SRQSLIISMAPSAEGGEEVLTIE
5458	35826	A	5503	1	2463	
5459	35827	B	5504	1	1221	
5460	35828	A	5505	1	4494	
5461	35829	A	5506	1	2825	MARTSYGQHFFPTLISMNIDSG RQNNGIPKLSTSYSLKPMNTLC YLVKRDLEGVLKLRILT WESSL DYPGGPSVITKVLIRQKEGQSQ RTRYDNGSRGWSDAIAVKRPQ AKECGWPLEAGKGKEWILRKE CIPANTLMLAQCPPTLRVGGSV CSAWRMIQNSDGERRKRNR IQL QAVRLSKVIHDTFRNFP RFVHS RELSKGAEKSSSLKKGLEQVII WTKCRQC GESRCTKKVEERKV LHNTFISTSTTITTLG

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
5462	35830	A	5508	1184	4791	TSMQKSSIKYWQTESSSTSKSLS TMIKWASSLGCKAGSVYANQ* M*SSI*TEPKTKTI*LSQ*MQKK PL/YKIQQPFMLKTLNKLQNL LKLISNFSKVSQYKINVQKSQA FLYTNNRQTESQIMSELPFTIAS KRIKYLGIQLTRDVKDLFKENY KPLLKEIKEDTNKWKNIPCSWV GRINIVKMAILPQVIYRFNAIPIK LPMFTFFTELEKTTFKFIWNQKR ARIAKSILSQKNKAGGITLPDFK LYYKATVT
5463	35831	A	5509	516	2233	
5464	35832	B	5510	286	4131	
5465	35833	B	5511	1	4911	
5466	35834	A	5512	1080	3119	SSGLHPWDARLVQYTQINKCN PAYKQSQRQKPHDYLNRCRKK AFDKIQQPFMLQTLNKLGDGT YFKIIRAIYDKPTANIILNGQKLE AFPLKTGTROGCPLSLLFNIVL EVLARAIROEKEIKGIQLGKEEV KLSLFADDMIVYLENPIISAQNL LKLISNFSKVSQYKINVQKSQTF LYNNNRQTESQIMSELPFTIALK RIKYLGIQLTRDVKDLFKENYK PLLKEIKEDTNKWKNIPCSWVG RINIVKMAILPKVIYRFNAIPIKL PMTFFTELEKTTLKFIWNQKRA RIAKSILSQKNKAGGITLPDFKL YYKATVTKTAWYWYQNRDID QWNRTEPSEIMPHIYNYLIFDKP EKNKQWKGDSL FNKWCWENW LAICRKLKLDPFLTRYTKINSR WIKDLNVRPKTIKTLEENLGITI QDIGVGKDFMSKTPKAMAACA KIDKWDLIKLSFCTAKETTIRV NRQPTTWEEKIFATYSSDKGLISR IYNELQQIYKKKTNNPIKKWAK DMNRHFSKEDIYAAKKHMKK\ CSSSLAIR\EMQIKTTMRYHLTP VRMAIIKSGNRRIRRHFFQPRS AMFFCCCPGGEGSGLQWELLL AAWTVLPYP CPAATVGRFLKQ AQADHSFLGHVWRVPSSRSW TDKEILSLVVNRQNQEVVQLIG GLCGTHTISPTQHPATG

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
5467	35835	A	5513	2494	4549	LQTI LQGYSNSKQHGTGTKTA WYWYQNRDIDQWNRTEPSEIT PHIYNYLIFDKPDKNKKWGKDS LFNKWCWENWLVICIKLKLDP FLTPYTKINSRWIKDLNVRPKTI KTIEENLGNTIQDIGMGKDFMS ETLKARATKAKIDKWDLIKLS FCTAKETTIRVNRQPTKWEKIF AIYSSDKGLIPRIYKELKQIYKK KTNSPIKKWVKDMNRHFSKEDI YAAKKHMKKCSSSLAIREMQI KTAMRYHLTPVRMAI
5468	35836	A	5514	1	5582	MGDFNTPLSTLDRSTRQKVNK DTQELNSALHQAADLIYQTLH PKSTEYTFFSAPHHTYSKIDHIL GSKALLSKCKRTQIITNYLSHLS AIKLELRIKNTQNHSTTWKLN NLLLNDYWVYNEMKAEIKMFF ETNENEDTTYQNLWDAFKAVC RGKFIALNAHKRKQERSKIDTL TSQKLELEKQEQTHSKASRRQE ITKIRAELEKETQKTLQKINESR SWFFERINKIDRPLARLIKKKRE KNQIDTIKNDK
5469	35837	A	5515	3371	5375	TDTSQKKTFMQPKKHKMKCSP SLAIREMQIKTTMRYHLTPVRM AIIKKSNNRSWYFEKINKIDRL LARLIKKKREKNQIDAINDKG DITDPTEIQTTRREYKHLA NKLENLEEMDKFLDTYNLPRL KQEEVESLNRPIRGSEIVAINSL PTKKSPGPDGFTAIFYHRYKEE LVPLLLKLFQSIEKEVILPNSFYE ASIIIPKPDRDTAKKENFRPISL MNIDAKILNKILANRIQQHIKKL IHHDQVG

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
5470	35838	A	5516	314	2695	GSACRDPDPDPLRLVGGGAAA PPCSSVSPSAWRQSRPREYYEG GRGLHAPDRETALGLGIATSER MLGICRGRRKFLAASLSLLCIPA ITWIYLFSGSFEDGKPVLSPL SQAHSPTYTASSQRERESLEVR MREVEEENRALRRQLSLAQGR APSHRRGNHSKTYSMEEGTGD SENLRAGIVAGNSSECGQPVV EKCRRNPLHFHLIADSIAEQILA TLFQTMVPAVRVDFYNADEL KSEVSWIPNKHYSYGLMKLV LTKTLPANLERVIVLDTITFAT DIAELWAVFHKFKGQQVLGLV ENQSDWYLGNLWKNHRPWA LGRGYNTGVILLLLDKLRKMK WEQMWRLTAERELMGMST LADQDIFNAVIKQNPFLVYQLP CFWNVQLSDHTRSEQCYRDVS DLKVIHWNSPKLRVKNKHVE FFRNLYLTFLEYDGNLLRREL GCPSEADVNSNLQKQSELDE DDLCEYFRFRERTVHRTHLYFL HYEYEPADSTDVTLVAQLSM DRLQMLEAICKHWEGPISLALY LSDAEAQQFLRYAQGSEVLMS RHNVGYPHYVYKEGQFYPVNL RNVAMKHISTPYMFLSDIDFLP MYGLYEYLRKSVIQLDLANTK KAMIVPAFETLRYRLSFPKSKA ELLSMLDMGTLFTFRYHVWTK GHAPTNFAKWRTATTPYRVEW

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
5471	35839	A	5517	3	2079	GKPVSLSPLESQAHSPTYTASS QRERESLEVVRMREVEEENRALR RQLSLAQGRAPSHRRGNHSKT YSMEEGTGDSLENLRAGIVAGNS SECGQQPVVEKCRRNPLHFHLI ADSIAEQILATLFQTMVPAVR VDFYNADDELKSEVSWIPNKHYS GIYGLMKLVLTKTLPANLervi VLDTDITFATDIAELWAVFHKF KGQQVLGLVENQSDWYLGNL WKNHRPWPALGRGYNTGVILL LLDKLRKMKWEQMWRLTAER ELMGMLSTSLADQDIFNAVIKQ NPFLVYQLPCFWNVQLSDHTRS EQCYRDVSDLKVIHWNSPKKL RVKNKHVEFFRNLYLTFLEYD GNLLRRELFQCPSEADVNSNL QKQSELDEDDLCYEFRRERFT VHRTHLYFLHYEYEPAADSTD VTLVAQLSMDRLQMLEAICKH WEGPISLALYLSDAEAQQFLRY AQGSEVLMSRHNHVGHIHYKE GQFYPVNLLRNVAMKHISTPY MFLSDIDFLPMYGLYEYLRKSV IQDLANTKKAMIVPAFETLRY RLSFPKSKAELLSMLDMGTLFT FRYHVWTKGHAPTNFAKWRT ATTPYRVEWEADFEPPYVVRR DCPEYDRRFVGFQWKNVAHIM ELDVQEYEFIVLPNAYMIHMPH APSFDTKFRSNKQYRICLTKLK EEFQQDMSRRYGFAALKYLTA
5472	35840	A	5518	403	2757	
5473	35841	B	5519	128	353	
5474	35842	A	5520	2	333	
5475	35843	B	5521	25	1359	
5476	35844	B	5522	1	1113	
5477	35845	A	5523	1	2526	
5478	35846	A	5524	3	555	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
5479	35847	A	5525	1	1710	MSQGTTPWGPTPAGTTPSEVH RPFPPVPVPVPETSESFVVRG VCGQAKSGLRRGAARLAPAAAY LFTRQQTRELIHSACVSISVNTM HGLSVAINSRRCTYYRKYVIDF SKSEIIGIPISKNIDLTVGTTVTQ LQNLNTVGIHSGRGGRGQVAAL NCDRQGHLWLFTRVTVHWRM GNDRTFWGLLDTVSELMFIPGN PKHHCGPPVKVGAYGVTFLGV HWCACQDTPCKMKDKLLHL APPTTKKKAQYVVGLLGFWRPI YRVTQKAASFEGWPEQDKALP QVQAAVQPALLFGPYDSADPM VLEASVADRDAVWSLWQAP/IS HKMGHAQQHSIIKWK*YICDW ARAGPKGTTAPMASWGVLYD QLTEEEKTRAFTDGSARYAG TTQKWTAAALQPLSRTSLKGS GEGKSSQWAEALQAVHLVVHFS WKDKWPDVRLYIDSWAVANG LAGWSGTWKKHDWKIGDKEI WGRGMWMDLSEWPVKPKIFG SHVSAHQWVISAEDFNQVD KMTCSVDITQPLSPATPVITQW AHKQSGHGGRDGGYTWAQQH GLPLTKTGLAMATAECPI
5480	35848	A	5526	1	438	
5481	35849	A	5527	1	612	
5482	35850	A	5528	2	736	EKCAMTALSSKLISQQKAFFAK MVVDVMMMLDDLLQLKMIGI KKVQGGALEDSQLVAGVAFKK TFSYAGFEMQPKYHNPKIAL NVELELKAEKDNAEIRVHTVED YQAIVDAEWNILYDKLEKIH SGAKVVL SKLPIGDVATQYFA DRDMFCAGRVPEDLKRTMM ACGGSIQTSVNALSADVLGRCQ VFEETQIGGERYNFFTGCPKAK TCTFILRGGAEQFMEETERSLH DAIMIVRRA
5483	35851	A	5529	3	474	
5484	35852	A	5530	374	968	
5485	35853	A	5531	1	568	
5486	35854	A	5532	1	2136	
5487	35855	A	5533	1	240	
5488	35856	A	5534	248	1034	
5489	35857	A	5535	1	1602	
5490	35858	A	5536	120	340	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
5491	35859	A	5537	2	408	DEDDDDDDDEEDDDDDDDDF DDEEAEEKAPVKKSIRDTPA\K NAQKSNQNGRDSKP\SSTPRSK GQESFKKQEKTPKTPKGPSSVE DIKAKMQASIEKGGSLPKVEAK FINYVKDCFRMTDQEA\QDLW QWRKSL
5492	35860	A	5538	194	1027	WSFISIHLLSYLSACHHLMEDS/ MDMGMRPLRPQNYLFSCELKA NKDYHFKVDNNENEHQLPLTTI NLGAGAMDELDIVEAEAMNYE GSPKIVILATLKMSVQPTVSLG G\FEITPPV\RLRLKCGSGPVHIS GQHLVAVEEDAEESEDEEEEDV KLLSISGKRSAPGGGSKVPQKK VKLADEDDDDDDDEEDDDDED DDDDDFDDEEAEEKAPVKKSIR DTPAKNAQKSNQNGKDSKPSS TPRSKGQESFKKQKTPKTPKG PSSVEDIKAKMQASIEKAH
5493	35861	C	5539	212	367	
5494	35862	A	5540	14	1515	
5495	35863	A	5541	1	540	
5496	35864	A	5542	1	1881	MDAALDDLIDTLGGPEETEEEN TTYTGPEVSDPMSSTYIEELGK REVTIPPKYRELLAKPIGPDDAI DALSSDFTCGSP*LYPSQVFHLL DLLPFSPGYQPRLLQHHLA/AVP FKVAGSGGADCILHMEVRDTA SDTGAGAAALDSSVFSVGLDGF SLHSDRSKSSESSSMSSDSLRLGL GFSSGSGNSGFPSLSVAGFNLYS DGIVSSSSPHFSSFSSLAFASTTS LIERRSSSGSACRVPSEADRASS
5497	35865	A	5543	1	930	
5498	35866	A	5544	1	183	
5499	35867	A	5545	1	555	
5500	35868	A	5546	162	499	FPGSGNMAKDAGLIEANGELK VFIDQNLSPGKGVVSLVAVHPS TVNPLGKQLLPKTFGQSNVNIA QQVVIGTPQRPAASNTL/VWVG SPHTPSTHFASQNPSSDSSPWS AGKR
5501	35869	A	5547	2	451	LVAEFSAADNHILPNESAYDQK NIRRRVYDALNVLAMNIIISKE KKEIKWIGLPTNSAQECQNLEV ERQRRLERIKQKQSQLQELILQ QIAFKNLVQRNRIHAEQQASRP PPNSVIHLPFIIVNTSKKTVIDC SISNDKFEYLFNFDNT
5502	35870	A	5548	37	162	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
5503	35871	A	5549	205	616	RKLHGSQSSITIAVFGKQNTYIR LEPFKINVLEQITKHIEKLQCGG VVKQLSRRGNNQHISSTYDINR ADAQVRRVNNYDIIVMSNSF NGQSEHQVWIGGQFTFIKFPIN SVSIRCRARQEGIMSSPGQQVG
5504	35872	B	5550	1	1407	
5505	35873	A	5551	3	416	MLPARMCCGIVSG*QFHTGNSY DHDYEFELGTRS*A*LKLLFS*T LPD*QLPAGSGEGPYHLEGQLS YCHRGGEKALAALLSSPTSKTR SPSEPDPEQDEQKLRFCKRHLY GQQPRSPVEIRLQHVAIAYQTH HAYD
5506	35874	A	5552	1988	2137	LVITLLPLACGTAK*E*VNVTS FGSRPICSTSPVLFSGL*GPVKEF DT
5507	35875	B	5553	1	561	
5508	35876	A	5554	1	492	
5509	35877	A	5555	3	1055	
5510	35878	A	5556	1	634	
5511	35879	A	5557	1	723	
5512	35880	A	5558	1	384	
5513	35881	A	5559	1	792	
5514	35882	A	5560	3	1607	HCTRMSVKWTSVILLIQLSFCFS SGNCGKVLVWAAEYSHWMNI KTILDELIQRGHEVTVLASSASI LFDPNSSALKIEIYPTSLTKTEL ENFIMQQIKRWSDLPKDTFWLY FSQVQEIMSIFGDITRKFCCKDVV SNKKFMKKVQESRFDVIFADAI FPCSELLAELFNIPFVYSLSFSPG YTFEKHSGGFIFPPSYVPVVMSE LTDQMTFMERVKNMIYVLYFD FWFEIFDMKKWDQFYSEVLGR PTTLSETMGKADVWLIRNSWN FQFPHPLLPNVDFVGGHLCKPA KPLPKEMEDFVQSSGENGVVV FSLGSMVSNMTEERANVIASAL AQIPQKVLWRFDGDKPDTLGL NTRLYKWIPQNDLLGHPKTRA FITHGGANGIYEAIYHGIPMVGI PLFADQPDNIAHMKARGAAVR VDFNTMSSTDLLNALKRVINDP SYKENVMKLSRIQHDQPVKPL DRAVFWIEFVMRHKGAKHLRV AAHDLTWQYHSLDVIGFLLV CVATVIFIVTKCCLFCFWKFAR KAKKGKND
5515	35883	A	5561	2	1600	

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5516	35884	A	5562	2	1624	AATGKQALHCIRMSMKWTSAL LLIQLSCYFSSGSCGKVLVWPT EFSHWMNIKTILDELVQRGHEV TVLASSASISFDPNSPSTLKFEV YPVSLTKTEFEDIKQLVKRWA ELPKDTFWSYFSQVQEIMWTFN DILRKFCCKDIVSNKKLMKKLQE SRFDVVLADAVFPFGELLAELL KIPFVYRPRFSPGYAIEKHSGGL LFPPSYVPVVMSELSQDMTFIE RVKNMIYVLYFEFWFQIFDMK KWDQFYSEVLGRPTTLSETMA KADIWLIRNYWDFQFPHLLPN VEFVGGLHCKPAKPLPKEMEVE FVQSSGENGVVVFSLGSMVSN SEERANVIASALAKIPQKVLWR FDGNKPDTLGLNTRLYKWIPQ NDLLGHPKTRAFITHGGANGIY EAIYHGIPMVGVPLLADQPDNI AHMKAKGAAVSLDFHTMSSTD LLNALKTVINDPLYKENAMKLS RIHHDQPVKPLDRAVFWIEFVM RHKGAKHLRVAADLTWFQY HSLDVTGFLACVATVIFIITKC LFCVWKFVRTGKKGKRD
5517	35885	A	5563	1	225	
5518	35886	A	5564	1	3210	
5519	35887	A	5565	1	835	
5520	35888	A	5566	222	477	HPRCLSPKGILKYLTKKYLKKN NLRDWLRVVANSKESYELRYF QINQDEEEEEDED*ISFIWKILYE FLNKTWDPKKKKTKKKKK
5521	35889	A	5567	1	778	MAAAAAAAGDSDSWDADAFS VEDPVRKVGGGGTAGGDRWG GEDEDEDVKDNWDDDDDEKK EEAEVKPEVKISEKKKIAEKIKE KERQQKKRQEEIKRLEEPEEP KVLTPEEQLADKLRLKKLQES DLELAKETFGVNAVYVYIDAM NPSSRDDTFEGKLLKDINTQYE ESLYYARFLEVLVRDVCISLEID DLKKITNSLTVLCSEKQKQEKQ SKAKKKKKGVVPGGGLKATM KDDLADYGGYDGGYVQDYED
5522	35890	A	5568	1	897	
5523	35891	A	5569	1	2658	
5524	35892	A	5570	1	441	
5525	35893	A	5571	3	427	

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5526	35894	A	5572	1	952	PRLVLLKMAPLDLDKYVEIARL CKYLPENDLKRLCDYVCDLLL EESNVQPVSTPVTVCGDHGF YDLCELFRTGGQVPDTNYIFMG DFVDRGYYSLETFTYLLALKAK WPDRTLLRGNHESRQITQVYG FYDDCLTKYG\NANAWRYCTK VFDMLTVAALIDEQILCVHGG SPDIKTL\DIQIRTIERNQEIPHK GAFCDL\VWS\DPEDVDT\WANS PRGAGWLFGAK\VTNEFGS*ST NLKLCRAHQLVHEGYKFMFD EKLVTVWSAPNYCYRCGNIASI MVFKDVNTREP KLFRAVPDSE RVIPPRTTTTPYFL
5527	35895	A	5573	54	588	
5528	35896	A	5574	1	4287	
5529	35897	A	5575	1	507	
5530	35898	A	5576	1	1416	
5531	35899	A	5577	1	841	ILLWDVDGGLTQIDKYLYSSED YIKSGALLACGIVNSGVRNECD PALALLSDYVLHNSNTMRLGSI FGLGLAYAGSNREDVLTLLLPV MGDSKSSMEVAGVTALACGMI AVGSCNGDVTSTILQTIMEKSE TELKDTYARWLPLGLGLNHLG KGEAIEAILAALEV VSEPF RSFA NTLVDVCAYAGSGNV LKVQQL LHICSEHFD\ SKEKEEDKDKKEK KDKDKKEAPADMGAHQGVAV LGIALIAMGEEIGAEMALRTFG HLLRYGEPTLRRVPLALAL
5532	35900	A	5578	2	391	AFGVTEPGCYGVIDVDTGKSTL FVPRLPASHATWMGKL/HSVLT SQKPSVLLTLRGVNTDSGSVCR EASFDGISKFEVNNTILHPEIVE CRVFKTDMELVRLRYTNKISSE AHREVMKAVKVGMKEYELER

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5533	35901	A	5579	18	1541	RRCRANMAAATGPSFWLGNET LKVPLALFALNRQRLCERLRKN PAVQAGSIVVLQGGEETQRYCT DTGVLFRQESFFHWAFGVTEPG CYGVIDVDTGKSTLFPRLPAS HATWMGKIHSKEHFKEKYAVD DVQYVDEIASVLT SQKPSVLLT LRGVNTDSGSVCREASFDGISK FEVNNTILHPEIVECRVFKTDM ELAEVLR\YTNKISS\EAHREV\MK AVKSGEWKEYGVGKASFEHY\ CYSRG\GMRH\TSYTCILRAVG *GTS AVL T FTGH\AGAPNDRTIQ NGDMCLFDMGGEYYSVASDIT CSFPRNGKFTADQ\KAVYEAVL LSSRAVMGAMKPGDWWPDM\ HRLAYRIHLEELAHMGILSGSV DAMVQAHLGAVFMPHGLGHF LGIDVHDVGGYPEGVERIDEPG LRSLRTARHLQPGMVLTVEPGI YFIDHLLDEALADPARASFLNR EVLQRFRGFGGVRIEEDVVVID SGIELLTCVPRTVEEIEACMAGC DKAFTPFSGPK
5534	35902	A	5580	1	98	
5535	35903	A	5581	1	810	

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5536	35904	A	5582	1	861	MLKEIIDDTNKWKHIPCSWMG RISIVKMTILPKAIYKFNAVLKI PPSFTELEKTILKFLCNEKRAS RAKARLNKKNKSGGITLLDFKR YYSIVTKTVWYWKYKNRHHQ RNRIENPEINPNTYSQLIFNKAN KNIKWGNDTLFSKWCWDNWL ATCRRMKLDPHLSPTKINSRW IKDLILRPETTKILEDNIGKTLLD VGLGKDFMTKNPKANARKAKI NIWDLIKLKSFFTAAGTVSRVN RQPTWEKIFIHTSDEGLLISRI YNELKQISKKKTNNPIKKWAK DMNRQFSKEDVQMANKYMKK CSTSLIANLICREMQIKTTMQY HLTPARMAIIKKSKISRCWHGC GDQGTLLHCWWECKLVQPLW KTVWRFLKELKVELPFDPAIPL LGTHPEEKKSLCKKDTCTCMLL AAQFTIAKSWNQPKCPSVNEWI KKLCPRWLLSKWASA*NKWK HIPCSWMGRISIVKMTILPKAIY KFNAVLKIPPSFTELEKTILKF LCNEKRASRAKARLNKKNKSG GITLLDFKRYYSIVTKTVWY WKYKNRHHQRNRIENPEINPNT YSQLIFNKANKNIKWGNDTLFS KWCWDNWLATCRRMKLDPHL SPHTKINSRWIKDLILRPETTKIL EDNIGKTLLDVGLGKDFMTKN PKANARKAKINIWDLIKLKSFF TAKGTVSRVNRQPTWEKIFIH
5537	35905	B	5583	473	1694	
5538	35906	A	5584	1	429	
5539	35907	A	5585	572	1149	PPVSHSMTLGNLSYLFAPNWTIT PAW/CNTLDPSEGFQWQASLSL PSHQFEHTCPEWLPTYSWPCK VGPDYLSEICQPECKQHFQESL TESSKQNIYETCAIYVSSPGERIL NQRFGPHGAFILVREYDDIRFS HSGPPSTCPNFPGPSYYTARESA YALKLRALEIIQISQSTKMQRNL GNPILPAIHQQPPQ
5540	35908	A	5586	1	804	
5541	35909	B	5587	1	1995	

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5542	35910	A	5588	74	1128	LLLDL*VD*SPSRPLEMRFRV*P MKRCTTLKKNYLSFLVYISRNL *NRVKAIM/VGKAEWKTIPL PRKTVNQKQYRIPGGIAEISTTI KELNNAGMVIPTTSPFNSPIWP VQKIDGSRMTVDYCKLNQV VTPIAATVPYVVSSLEQIN/TSPG T/WNRKRFCNRSRLLHKLCHL GHMTQQI*CFLRCQWHIGMLF GPEICGCTSLSGQKL/WKIFVSH AASFWSPEQEKALQQVQAVV QAALPLGPYPADPVLLEMSV ADRDVWILWQAPISESQWRPP GFWSKALPSSADNYSPPERQLL ACYWTLVETERLTMGHQVTIPP ELPIMNWVFSDLSSPKMCHPQQ
5543	35911	A	5589	1	1337	MIISIDAEKAFDKIQPFMLKTL SKLEETASPPVVATYTPQPMML PSAFPPLSEEINPVLPETTVMAS PEAVTRQDNVDSPQKPPPTPMF ASRPITRLKPRRAPSEEGIRLK KIGMVEWISHFRPTPLSMEGPE HILLTNTLLNRYVKAAPASLKS PLTALLFMSDLTVGTTFSQLQN LNTMGIFGSSCDRSQVAALNHQ RQVPECKIVIDILNIWRIPHIGSL TGRVREIMVGKAKWKPLEQPP PRKIVIQKQYHIPGAITEISATIE DLKETGVVILTTSPFKSSIWPLQ KTDGSRMTVNYHKLNQVET PIAAAVPDVVSLEQINTSPGT WYAAIDLNVFFSIPVYKAHQK QFAFSWQQQYTFITFLPQGYIN SPDITLVHYIDIMLIGSSEQEV ANTLDLLPARVASWGVVPYDQL T/GGRED*GLLHRWSCRICRHH
5544	35912	A	5590	2	693	KIVN/QKQYHIRGGIAEISATIKD SKDTGVVIPTTSPFNSPIWPVW KTDGSWTITVDYHKLDQVVTPI AAAVPDVVSLEQINTSPGTWY AAINLENAFFSIPVHKANQ/KQF AFSWQQQYTIAVLPQ/VKFLG IHWFVACQDIPSKIKDKLLHLA PPTNKKEAQCLVGLFGFWRQHI PHLRVLLQPIYQVTLKAAIFEW GPEQEKALQQVQAAVQAALPL GPYDPTDPMVLE

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5545	35913	A	5591	1	1011	MVSTPATLPSLPKALMASWG VPYDQLTKEEKTRVWFTDGS RYAGTTQKWTAAVALQPLSRTS LKDSSEKSSQWAEQAVYLV VHFAWKEKWPDVGLYTDSWA VANGLAGWSETWEKQDWKIG DKEIWGRGMWMDLSEWSKAV KIFVSHVSAHQVTSAAEEFN QVDRPL/PVFTQWAHEQSGHSG RDGGYSWAQQTGLPFTKADL AMATAECPICQQRPPLSPLYS TIPQGDQPATWWQIDYIGPLPS WKGQKFVLTVIDTYSRYRFAY PAHNASAKTTIHGLIECLHCY IPHSIASDQSIHF/TTKEVQ*WAH AHGIHWSYHVSHHPEAAGL
5546	35914	A	5592	7	278	SASCTAAFHHQMEVVYTRSGS SRS*RPTIPVIAQWDYDHNGHG GRDGGYPWAQQHELPLTKADL ATATAECPICQQRPPLSPRCGT IPR
5547	35915	A	5593	1	237	
5548	35916	C	5594	63	116	
5549	35917	A	5595	2	739	HKMGHAQQHSIIKWK*YICDW ARAGPKGTTAPMASWGVLYD QLTEEEKTRAWFTDGSARYAG TTQKWTAAALQPLSRTSLKGS GEGKSSQWAEQAVHLVVHFS WKDKWPDVRLYIDSWAVANG LAGWSGTWKKHWDKIGDKEI WGRGMWMDLSEWPVKIFG SHVSAHQWVISAEEFNQVD KMTCSVDITQPLSPATPVITQW AHKQSGHGGRDGGYTWAQQH GLPLTKTGLAMATAECPI
5550	35918	A	5596	1	354	
5551	35919	A	5597	3	592	
5552	35920	A	5598	126	365	QLAEPHWLPD*KGAGFEWGP EQKKALQ*VQAAVQAALPLGP YDPADPMVLVVSADKDAVWI FHLSGSDRWRRTYRCL
5553	35921	A	5599	1	483	
5554	35922	A	5600	1	1908	
5555	35923	B	5601	141	1569	
5556	35924	B	5602	46	1533	
5557	35925	A	5603	61	448	WRFLGPWRIVSCWFCGWEERR EGSAFFVGIPARMSAARESHPH GVKRSASPDDDLGSSNWEAAY LGNEERKQKFLRLMGA/GKGEE DQKINEELESQYQHSMDSKLSG RYRRHCGLGFSEVEDHDGED

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5558	35926	A	5604	1	404	PWRIVSCWFCGWEEERREGSAFF VGIPARMSAARESHPHGVKRSA SPDDDLGSSNWEAADLGNEER KQKFLRLMGAGKKEHTGRLVI GDHKSTSHFRTGVEDHDGEGDV AGDDDDDDDDSPDP*SPDDSES DSESE
5559	35927	A	5605	2	434	LGPWRIVSCWFCGWEEERREGS AFFVGIPARMSAARESHPHGVK RSASPDDDDFFLFAIMNGK*KIV NSHRCSVKAKSRQQLGSSNWE AADLGNEERKQKFLRLMGAGK KEHTGRLVIGDHKSTSHFRTGE ED*KINEELESQYQH
5560	35928	C	5606	909	1096	
5561	35929	A	5607	1	309	PQPAAMAAYIWVLIRHGESAW NLETSFSGWYDATLSLAGHKE AKRGGQALRGLFQVPLAPEAV GTVWCSWRTPCALKQL*PRPL KRRRLILADRHTQPRPQQ
5562	35930	A	5608	93	914	SQSVPHQPAAAMAAYK\LVLG\ RHGESAWNLENRFSGWDDADL SPAGQRGGERFAAALQDAGY EFDICFTSV\QKRAIRTLWTVL\ DAFDQMWLASGEGLWGFNER HYWGS*PGLN*KQKLAAKIG*G PRLKI\WRRSYD\VPPPPMEPDH PFYSNISKDRRYADLTEDQLPS CAESLKDTIARALPFWNEEIVPQI KEGKRVLIAAHGNSLRGIVKHL EGLSEEAIMELNLPTGIPIVYEL DKNLKPICKPMQFLGDEETVRKA MEAVAAQGKAKK
5563	35931	A	5609	2	450	VNKAGGLIYQLDSYAP/RAEAE KTFSYPLDLLLKLHDERVLVAF GQRDGIRVGHAVLAINGMDVN GRYTADGKEVLEYLGNPANYP VSIRFGRPRLTSNEKLMLASMF HS\IKFVVLADP\RQAGIDSLLRK IYEIYSDFALKNPFSLEMP
5564	35932	A	5610	1	663	
5565	35933	A	5611	1	2034	

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5566	35934	A	5612	374	1106	IPVSEKQGSQDWRFFSVYVVNKA GGLIYQLDSYAPTGLRLEKTF YPLDLAGSS*HDERVLVAFGQR GRHPEWGHAVL\AINGM\DVNG RYTADG\KEVLEYLG*PLLNP VSIRF\GRPRL\TSNE\KLMGLP CFHSLFAIG\SAQCLPGTREASR HLKILGRQDTFK\H\CYQTLTG IKFVVL\ADPR\QAG\DSLLRKI YE\Y\SDFALKNP\FYSLEMP IR CELFQDQNLKLALEVAEKAGTF
5567	35935	A	5613	1	336	
5568	35936	B	5614	60	2175	
5569	35937	A	5615	2	198	
5570	35938	A	5616	1	449	
5571	35939	A	5617	1	771	
5572	35940	A	5618	18	736	EAMSSKVSRTDLYEAVREVLH GNQRKRRKFLETVELQISLKNY DPQKDKRFSGT/VQVGTVLIPPS PQCPRACPSAGSR*AGGGHVG TDVLG*FRPPAPGRRGWTDPHP GS*NMRGGVGRPRSPASLRS QAGCW*M*TLRVRLGWLLRSQ TLHRLGTPGLGVTCWCCPPK RRLKSTPRPKFSVCVLGDQQHC DEAKAVDIPHMDIEALKKLNK NKKLVKKLAKKYDAFLASESLI
5573	35941	A	5619	24	698	EAMSSKVSRTDLYDAVREVLH GNQRKRRKFLETVELQISLKNY DPQKDKRFSGTVRLKSTPRPKF SVCVLGDQQHCDEAKAVDIPH MDIEALKKLNKKNKKTGSRSWP KKYDAFLA/SQSPLIQADSPKSL GP\SLNKGKSSPSLLTH\NKNM VAKVDEVKSTIKFPNWRRCLCL AVAVGHVKMTDDELVYNIHLA VNFLVSLKKNWQNVRLYIK SPMGKPQRLY
5574	35942	A	5620	1	843	

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5575	35943	A	5621	3	1215	LLIMADPRDKALQDYRKLLLE HKEIDGRLKELREQLKELTKQY EKSENDLKALQSV\GQ\VGVL KQLT\EEKFIVKATNGPRYVVG C\RRQL*QKVSLKPGTR\VALD MTTLTI\MEDILPR\EVDPLVYN MS\HEDPG\NVSYSSEIGGLSE\QI RGI*GEVIGLPLYKPSYFQRVG IIPPK\GCLLYG\PPGTGKNT/LLA RAVASQLDCNFLKVVSSSIVDK YIGESARLIREMFNYARDHQPCI IFMDEIDAIGGRRFSEGTSADRE IQRITLMELLNQMDGFDTLHRV KMTMATNRPDITDPA\LRPGR LDRKIHIDLPNEQARLDILAKIHA GPITKHG\EIDYEAIVKLS\DG\FN GADLRNVCTEAGMFAIRADHD FVSTGKTS\KA\VRKVADSKKL ESKLDYKPV
5576	35944	A	5622	104	173	
5577	35945	A	5623	1	1140	
5578	35946	A	5624	1	528	
5579	35947	A	5625	1	1083	
5580	35948	A	5626	1	471	
5581	35949	A	5627	1	2322	
5582	35950	A	5628	1	678	
5583	35951	B	5629	213	1477	
5584	35952	A	5630	2	339	FGLHKWGLGLEASSPCG\PLTPS YLG\PRPHPGTLGLGRFWPFLA LQSLSETPSHARM\PRVTVARTS PETLEISPLRAAT*NHRSSGHTC FRERMLRVSCRLSLDLSSWVR
5585	35953	A	5631	1	783	

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5586	35954	A	5632	92	2746	ASRMTVLQEPVQAAIWQALNH YAYRDAVFLAERLYAEVHSEE ALFLLATCYRSGKAYKAYRL LKGHSCCTPQCKYLLAKCCVD LSKLAEGEQILSGGVFNKQKSH DDIVTEFGDSACFTLSLLGHGH VQTERAAKGTAFSPKRLCLHTF PWTPLEPLVEIGERPLPHQTFN FTS*RNFANCLHTSGTKQVTN HVFSHRQPETVLTETPQDITEL NRLNLESSNSKYSLNTDSSVSYI DSAVISPADTVPLGTGITSILSKP VQ\NKPKTGRSLLGGPAALSPL TPKFWGFLPIRKPP\SPG\DGS\Y LQNYTNTPPVIDVPSTGAPSKK TFRVLQSVARIGQTGKSVFSQ SGNSREVTPILAQTQSSGPQTST TPQVLSPTITSPPNALPRRSSRLF TSDSSTTKENSKKLKMKFPPKIP NRKTKSKTNKGGITQPNINDSL EITKLDSSIIEGKISTITPQIQAF NLQKAAAEGLMSLLREMGKG YLALCSYNCKEAINILSHLPSSH YNTGWVLCQIGRAYFELSEYM QAERIFSEVRRIENYRVEGMEIY STTLWHLQKDVALSVLSKDLT DMDKNPESGTQRGRESPRMC GADSQIEKSQSSYFIQDLSRFDY VKFAVVTKIRAWCAAGNCFSL QREHDIAIKFFQRAIQVDPNYA YAYTLLGHEFVLTEELDKALAC FRNAIRVNPRHYNAWYGLGMI
5587	35955	A	5633	260	678	GEFSIFFWVWN*LLLWHQETFS I*NLFSSH*TSITYQATEEGDFII QMKLIHFGDSIFIYLLKLLILNRK P**EAAISI*V*TWRSRFSHFQLR *HQTQVTNHSWFTEAR*LTDLV KSKSPTIPCSRFKANTLF**SDP
5588	35956	A	5634	1	1452	
5589	35957	A	5635	2	1563	
5590	35958	A	5636	1	444	
5591	35959	A	5637	2	345	

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5592	35960	A	5638	2	1721	RSREAAAVAAAAATTAFGCRI WNPCAALTMKQSSNVPAFLSK LWTLVEETHTNEFITWSQNGQS FLVLDEQRFakeILPKYFKHNN MASFVRQLNMYGFRKVVIDS GIVKQERDGPVEFQHPYFKQCC DDLLENIKRKVSSSKPEENKIRQ EDLTKIISAAQKVQIKQETIESRL SELKSENESSLWKEVSELRAKHA QQQQVIRKIVQFIVTLVQNNQL VSLKRRKPLLLNTNGAQKKNL FQHIVKEPTDNHHHKVPHSRTE GLKPRERISDDIIYDVTDDNAD EENIPVIPETNEDVISDPSNCSQY PDIVIVEDDNEDEYAPVIQSGEQ NEPARESLSSGSDGSSPLMSSA VQLNGSSSLTSÆDPVATMDGFP FGMDNIQSFWGRVELLDYLDL IDCSLEDFQAMLSGRQFSIDPDL LVDLFTSSVQMNPTDYINNTKS ENKGLETTK\NNVVQPVSEEGK ENLKS\K\DK\QLIQYTAFLAF LDG\NPASSV*TGRGTTASFRKF CPL*DKPIEVDELLDSSLDPEPT QSKLVRLEPLTEAEASEATLFY LCELAPALDSDMPLDLS
5593	35961	A	5639	2	251	
5594	35962	A	5640	70	297	QLRSPLKWKKAQRQPLAIAHV LLLRPRKKRQNGFFTVRYARLL STLPRSWRR\KQWY*AQNHVRS PEWKWHYQSL
5595	35963	A	5641	3	985	
5596	35964	A	5642	1	3501	
5597	35965	A	5643	1	1752	
5598	35966	C	5644	1	879	
5599	35967	A	5645	21	519	LHIPVRTLSCRFGVCWRSTPG PVCLGISSGGCRTVDIAALQLW LRGLALPEQLLRVDPHPQACRR LPREPPGPGQTFGTREPPQAVS TKEASSNLHAPERTVAGLTFT TEQVRALEGVFRHHQYLGPLE RNWLAREMQLS\RSR*KPGFKI AG*NTNGKCRTPS
5600	35968	A	5646	90	2401	
5601	35969	A	5647	776	1018	
5602	35970	B	5648	1	1296	
5603	35971	A	5649	1	1257	
5604	35972	A	5650	731	4841	
5605	35973	A	5651	325	9497	
5606	35974	A	5652	1	322	
5607	35975	A	5653	1	819	

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5608	35976	A	5654	56	251	
5609	35977	A	5655	149	701	
5610	35978	A	5656	3	415	
5611	35979	A	5657	3	467	AIASPRAAGIRHELTSTMAAGK NKRLTKGGKKGAKKKAV/DNII NIGKTLVTRTQRTKIASDGLKG RVFEESLADLQNDTDGYLLRVI *VAFTTERTNQI/REVFNKLIPDS IGKDIEKACQSIYPLHDDFARK VKMLKKPKFELRKLMEHGE
5612	35980	A	5658	2	418	PRVRADGKNFRLTKGGELGAR NKVVDPPFSKKDWYDVKAPAM FNIRNIGKTLVSRTQGTKIASDG LKGRVFEARLADLQNDDEVAFIK CKLITDDVHGKNCLTIFHGMDL TRDKMCSLGKKWQTMIEAHV DVKTTDGYLL
5613	35981	A	5659	3	121	
5614	35982	A	5660	1	237	
5615	35983	A	5661	25	967	FSPAAGIRHEGSLTSTMAVGKN KRLTKG\GKKGS\KKKVVDPPF R\KD\WY*RRKHPLMFHYKN\IG KTLVTQDPKGPKIA\SDGLQGF VCLKVSLADLQNDDEVASRK\I RLITEVCFRGKNLP*LTSHGAW DLYPVTKMCSHGQKNWQTM DSSR*MFKTNPMGYLALRLFLC \VGFT*KNRNQFRLRKAPPYAS ATQQVPPKSRKKM\ME\IMTPR GARQNDLEKKWVNKLIPRQAL GKDIRKGPAQSYFIPLHDLRL EKLKLEGGSPKF*IGESSLGASM GGRAVVPKGSHLGTQTGAKVG TSLMGYEPPVPRILV

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5616	35984	A	5662	1	2142	MIILIDAEKAFDKIQPFMLKTL NKLIGIDGTYLKITRAIYDKPTA NIILNGQKLEAFPLKTGTROGCP LSPLLFNIVLEVLAQAIRQEKEI KGIQLGKEEVKLSLFADDMILY LENPIVSAQKLLKLISNVSKVSG YKINVQKSQAFLYTNNRQTESQ IMSEFPFTIATKRIKYLGIQLTRD VKDLFKKYKPLLNIKEDTNK WKNIACSWGRINIMKMAFPR WELNNENTWTQEGEHTLGPV VGWGKRGGIALVDIPNVNDKL MVLEVLARAIRQKKEIKGIQLG KEEVKLSLFADDMIVYLENSIV SAQNLKLISNFSKVSGYKINVQ KSQAFLYTNNRQTESQIMSEFP FTIATKRIKYLGIQLTRDVKDLF KENYKPLLKEIREDTNKWKNIP CSRIGRINIMKMAILPKVIYRFN DPIKLPMFTFFTELEKTTLKFIW NQKRACIAKTILSKKNIAGGITL PDFKLYYKATVTKTAWYWYQ NRDIDQWNRTEASEVTSHIYNH LIFYKPDKNKKWGNDSLFNKW CWENWLAICRKLKLDPFLTPYT KIHSRWIKDLNVRPKTIKTLEEN LGNTIQDIGMGKDFMTKTPKA MATKAKVDKWDVIKLKSFCTA KETTIRVSRQPTWEKIFAIYPS DKGLISRIYKELKQIYRKK\TTN PIKKWAKNMNRHFSKEDIYAA NRQMKKCSSLVIREMQIKTTM

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5617	35985	A	5663	1391	2742	KKRESSLTHVMRPASF*YQSQA ETQKKRILDQYP**TLMQKSSI K/YLAKRIQQHIKKLIHHDQVGF IPGMQGWFNIRKSINVIQHINRA KDKNHMIISIDAEKAFDKIQQPF MLKTLNikleEETTvkfiwnq KRAHIAKSILSQKNKAGGITLR DFKLYYKATVTKTAWYWYQN RDIDQWNRTEPSEITLHIYNYLI FDKPEKNKQWGTDSLFNKWC WENWLAICRKLKLDPFLTPYTK INSRWIKDLNVRPKTIKLEENL GITIQDIGMGKDFMSKTPKAMA TKAKIDKWDLIKLSFCTAKET TIRVNRQPTKWEKIFTTYSDDK GLISRIYNELKQIYKKKTNNPIK KWAKDMNRHFSEEDIYAACKH MKKCSSSLAIREMQIKTTMRYH LTPVRMAIHKSGNNRHAPFSIH THIMFGSLYLQIQKDLISILGF WYPRGILEPIY
5618	35986	A	5664	1	1910	MTIIIIIIIIITIIIIIVHIITINIVIT TTILTTVIISSTIIIIITIFVFETGAI KLEIRIKKLTQNRSATWKLNNL LLNDYWVHNEMKAEIKMFFET NENKDTTCQNLWDTFKAINKID RPLARLIKKKREKNQIDAINKD KGDITDTTGIQTTIREYYKHLY ANKLENREEMDKFFDTYTLPRL NQEEVESLNRPIGSKIIEIINSL SIKKSPGPDGFTAIFYQRYKEE LVPFLLKLFQSIEKEGILNSCCE ASIIIPKPGRDTTKENFRPISL MNIDAKILNKTLANRIQQHITK LIHHVQVGFIPGMQGWFNIRKS INNWKTTLKLINQKRACITK SILSQKNKAGGITLPDFKLYYK ATVTKTAWYWYQNRDIDQWN RTEASEIIPHTYNYLSFDKPKDN KKWGNNSLFNKCWENWLA ICRKLKLDPFLTYTKINSRWIK DLNFGTETIKTLEENLGNTHDI GMGKDFMSKTPKAKATKAKID KWDLIKLSFCTAKETTIRVNR QPTWEKIFAIYPSDKGLISRIY KELKQVYKKKTNNPIKKWAKD TNRHFSNEDIYAANRHMKKCS SSLAIREMQIKTTMRYHLAPVR MTIIKKSGSNRQ/W*ASGHVRC

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5619	35987	A	5665	1	2460	MPHAGHARSPGHTLIKLAEEWW MSRWMEWNPFGFPLSIDAKCHK DLPRDIQFDSEKGVDFVLNYSK ALNQEEVESLNRPTGSEIEAIIN SLPTQKSSGPDGFTAIFYQRYK EELVPFLLKLFQSIEKEGILPNSF YEASIIIPKPGRYTHKKNNFRPI SLMNIDAKILNKILANRIQQHIK KLIHQDQVGIIIPGMQSWFNIHK SINVIQHINRTKDKNHMIISIDAE KAFDKIQQPFMLKTLNKLGIK YLRJQLTRDVKDLFKENYKSL NEIKEDTNKWNIPCSWIGRMN IHKMAI/LPKVIYRFNVIPIKLPMT FFSELEKSTLKFIVNQKRARIAK TILSQKNKAGGIMLPDFKLYYK ATVTKTAWYWYQNRDIDQWN RTEPSEMTPHIYNHLIFDKPDKN KQWGKDSL FNKWCWENWLAI GRQLKLDPFLTPYTKINSRWIK DLNVRPKTIKTLEENLGNTIQDI SMGKDFMSKTPKAMATKAKM DKWDLIKLSFCTAKETTIRVN RQPTWEKNFAIYSSDKGLISRI YKQLKQIYKKKTNNPIKKWAK DMNRHFSKEDVYAANRHMKK CSSSLAIREMQIKTIMIYHLPV TMAIIKKSNNRCWRGCGEMG TLLYCWWDCCLVQPLWKTW QFLRDLELGIPFPAIPLLGIIYPK DYKSCCYKDTCTPKLARDDQI HILKQHRRKELETRQKQYRAW
5620	35988	A	5666	689	1909	LIA YQPKSRTRWIHNQILPERI KYLGIQLTRDVKDFLKEKYKPL LNEIKEDINKWNIPCSWIGRJN LVKMAIL/PQAICRKLKLDPFLT TYTKINSRWIKDLHVRPKTTKT LEENLGNTIQDIGMGKDFMSKT PKAMATEAKIDKWDLIKRSFC AAKETTTTRVNRQPTDWEKMFA IYSSDKGLISRIYEELKQIYKKK TNNPINKWAKDMNRHFSKEDI YAANRHMKKCSSSLAIREMQIK TTVSPFAAQWVSQRYGKWQEA HPSNNDGKGYRGKPRFQSLSD VHGPQDQKKIKESALPPTPTFI NILMNAKTIENGQFPYLLNALK QQQPHDAENLFTWGKENAAIV SPCIEVSAALSQWKVPAWPQRS GIPNRILRSPIGLGSWVAFLDL VWVRGDPTALK

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5621	35989	B	5667	1	1962	
5622	35990	B	5668	1	1851	
5623	35991	A	5669	1	1947	MNIDAKILNKILANRIQQHIKKL IHHDQVGFIPGRQGWFNICKSIN VIQHINRAKDKNHMISIDA EKA FDKIQQLFMLKTLNKL GIDGT FKIIRAIYDKPTANIILNGKKLEA FPLKTGTRQGCPLSPLLFNIVLE VLARAIQEKEIKGIQLGKEEV KLSLFADDMIVYLENPIVSAQN LLKLISNFSKVSGYKINVQKSQ AFLYTNNRQTESQIMSELPFTIA SKRIKYLGIQLTRDVKDLFEN YKPLLKEIKEDANKWKNIPCSW VGRINIVKMAILPKVIYRFNAIPI KLPMFTFFTELEKTTLKFIWNQK RAHITKAILSQKNKARGITLPDF KLYYKATVTKTAWYWYQNRD IDQWNRTQPSEITPHIYNLIFD KPDKNKQWGKGSLEFNKWCWE NWLAI CRKLKLDPFLTPYTKIN SRWIKDLNVRPKTTKTLEENLG ITI QDIGMGDMFMSKTPKAMAT KDKIDK WDLIKLSFCTAKETT IRVNRQPTKWEKIFTTYSSDKG LISRIYNELKQIYKKKTNNPIKK WAKDMNRHFSKEDIYA AKKH MKKCSPSLAIREMQIKTTMRYH LTPVRMAIIKKSGNNRCWRGC GEIGTLLHCWWINWMKKTWH IYTM EYYASIKKNEFMSFAGA* MKLETII
5624	35992	A	5670	2	1967	

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5625	35993	A	5671	1039	2272	KKRESSLTHVMRPASF*YQSQA ETQQKKRILDQYP**TLMQKSSI K/YLAKRIQQHIKKLIHHDQVGF IPGMQGWFNIRKSINVIQHINRA KDKNHMIIISIDAEKAFDKIQQPF MLKTLNKLELEETT VKFIWNQ KRAHIAKSILSQKNKAGGITLR DFKLYYKATVTKTAWYWYQN RDIDQWNRTEPSEITLHIYNYLI FDKPEKNKQWGTDSL FNKWC WENWLAICRKLKLD PFLTPYTK INSRWIKDLNVRPKTIKLEENL GITIQDIGMGKDFMSKTPKAMA TKAKIDKWDLIKLSFCTAKET TIRVNRQPTKWEKIFTTYSSDK GLISRIYNELKQIYKKKTNNPIK KWAKDMNRHFSEEDIYAAKKH MKKCSSSLAIREMQIKTTMRYH LTPVRMAIHKSGNN
5626	35994	A	5672	1	3477	
5627	35995	A	5673	1	2814	
5628	35996	A	5674	1	2093	
5629	35997	A	5675	1	2724	
5630	35998	A	5676	1	4680	MDKFLDTYTL PRLNQEEVESLN RPITGSEIVAIINSLPTKKDPGPD GFTAIFYQRIKYLGIQLTRDVK DLFKENYKPLLKEIKEDTNKW KNIPCSWVGRINIMKMAILPKVI YRFNAIPIKLPMTFFTELEKTTL KFIWNQKRARITKSILSQKNKA GGITLPDFKLYYKATVTKTAW YWYQNRDIDQWNRAPSEIML PIYNYLIFDKPDKNKQWGKDSL FNKWCWENWLAICRKLKLD PFLTPYTKINSRWIK
5631	35999	B	5677	1	1989	
5632	36000	A	5678	1	2784	
5633	36001	B	5679	1	3573	
5634	36002	B	5680	1	2630	
5635	36003	A	5681	5339	10577	
5636	36004	A	5682	1	873	
5637	36005	A	5683	1	672	
5638	36006	A	5684	1	435	

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5639	36007	A	5685	1	1011	MVRFGDELGGRYGGPGGGERA RGGGAGGAGGPGGGLQPGQR VLYKQSIAQRARTMALYNPIPV KQNCFTVNRSLFVFSEDNVVRK YAKRITEWPPFEYMILATIIANC IVLALEQHLDPDGDKTPMSERLD DTEPYFIGIFCFEAGIKIIALGFV FHKGSYLRNGWNVMDFVVVL TGRKAGLGCCGSGVESGGWGD RSSSPAMEQSRMENDFDELTEV GFRKSVITNFSELKEDVRTHRK EAKNLEKRLDKMVNRINSVEK TLNDPMELKTMARELCDACTS FSS*FNQVEEKVSVIEDQMDDEM K*EEKFREKRVKRNEQSLQEIW DYVKRPNLRL
5640	36008	A	5686	1	1539	
5641	36009	A	5687	1	756	MDDPRLNVKPLTESLETYSGKS KGLEGDVITDSKLNDCRCPST KLPEEGLGSGNICCSAIFAVLQPL LVIPRQTGSGVDHQQTPTDLRM TVRRKMNKQKGIASSTKRTK KDIHTKTPSVCHQHQRPKDCSP SPATEQSWMENDLEELTEIGFR RSVITNFSELKEDVRIHHKKAK NLGKRLDEWLTRINSVEKTLND LMELKTMARELHDSCTSFNSRS NQAEKVSVIDQFNEIKREEK FREKRVKRNEQSLQEIW DYVKRPNLRL
5642	36010	A	5688	1	1008	MVRFGDELGGRYGGPGGGERA RGGGAGGAGGPGGGLQPGQR VLYKQSIAQRARTMALYNPIPV KQNCFTVNRSLFVFSEDNVVRK YAKRITEWPPFEYMILATIIANC IVLALEQHLDPDGDKTPMSERLD DTEPYFIGIFCFEAGIKIIALGFV FHKGSYLRNGWNVMDFVVVL TGRKAGLGCCGSGVESGGWGD RSSSPAMEQSRMENDFDELTEV GFRKSVITNFSELKEDVRTHRK EAKNLEKRLDEWLTRMNSVEK TLNDLMELKTMARELRDACT FSSQFDQVQEMVSVIQDQISEM KREEKFREKRVKRNE/QLQ*I WDYVERPNLRL
5643	36011	A	5689	1	672	
5644	36012	A	5690	1	807	
5645	36013	A	5691	1	1617	

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5646	36014	A	5692	1064	1893	LLEGSININKKDIYTKTQSVGRQ HQRPKVDKTTKMGRNQNRKA ENSKNQSASSPPKDC\SSSPAME QSWMENNFDELTEIGFRRSVIT NFSELKEDVQTHCKEAKNLKK RLDECLTRINSVEKKTLDLME LKTMAQELHDTCTSFNTQFDQ VEERVSVIEDQINEIK*EEKFRE KRVKINE*SCQEIWD*VKRPNI HLITVPESDGEKGTKLENTLQDI IQENFHNJARQANIQIQEIQRTA QRYSSRTATPRHIIVRFKAVEM KEKVLRAARKKG
5647	36015	A	5693	3	620	EAGWLLSSVDEVKMKENDEL DSISQLQKQILSLKSALTESL ISFRERAEIVEKQTQALIM*VAD LQQGNDQTFQGLDGTSELTLI PGDPKHHCPPGPKVRA YGDQ VINGVLAQVQLIVGPVGPWTHP VVISPVPECVIGIILNSWQNPFI GSLTGRVRAIMVGISWQQGQY TFTVLPQRYINFPALCHKTAKR HTARR
5648	36016	A	5694	1	1098	
5649	36017	A	5695	2	563	IIRRAVFRWFWG*RSWGLNMIR PQNTKDSNSNCLEKTDSPWCEL FKELYKINAFDTPDSLLMRGNE FSDPIHHTFDHMRWRTKEHNEA GWLLSSVDKVMKENDELGDS ISQLQKQILSLKSALSESLS CRERAEIVEK*T*ALIMLVADL Q*KVHAQPHHAQPRQVSTVKV RALIVLQEVTD
5650	36018	A	5696	1	499	FVLVDVNNMWHRYASMLYER RLLIICSLSTLTACIHGFAAML YPMYWQHVVYIPVLPPLLDYC CAPMPYLIGIHLMEKVRNMA LDDVILNVDTNTLETDFDLQ SLPNDVISSLKNRLKKVSTTTG DGVARAFLKAQAFFGSYRNA LKIEPEEPITFCEEA
5651	36019	A	5697	1	795	
5652	36020	A	5698	103	3531	
5653	36021	A	5699	1	2073	
5654	36022	A	5700	1	901	
5655	36023	A	5701	148	639	
5656	36024	A	5702	1	318	REYGTPEQLNLALLTLNFLSL PKGQMLSAAEQHLQKPAakte A/GRMIWQRDPITKIWEIGKIIT WGRGYACVSPGQNHQSVWIPS RHLKSCHGPDAKEEIPGGS

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5657	36025	A	5703	1	612	PTRPIKHITDIPYNSEGQAIVER MNLCLKQQLQKHKKGGK/SKD YGTPHMQLNLALLTLNFLSLPK GQILSVAEQHLQKPAAKTEAEQ LVWWRDPITKS*EIGKIITWGK GYACVSPGLTQQPIWIPSRHLK PYHEPDAAAAEIPGGSRGPPPPV/ DSHVETDAEEEPHCHEQHLNNT ATHLGTQDEAVTAGGRKPEES KTTSHNK
5658	36026	A	5704	2	791	
5659	36027	A	5705	2301	2620	DGQQIALHRLALRELQQAGH AGLPQQAQILFDGGSEIGKIRGL QRPRAKNRLSGRGPLREPSPK*F FGVQGRKTLNRTLKGAPH*NL AAKAGKPLSPCTSGRIRM
5660	36028	A	5706	1	1010	MDDIPQEAGRYRHNQAYAYS QGDGAEDDDERIVRFHTRVTV DSDTLASDAARLTCRHGLGNQ GSDLVLYGTSTPKNLIWVRVH VVGHRPDRRFFAFDVWSPRSLI VDSCSKLEQHSTLSRAILLIYKG FCRFRNHHQTGFSPAGANQRGP LAATLSGPGGEGQSAVARLTGE KKNHPGAQYANRLSPRVGRFIN AAGTTGFPTGKRAVSATQLMD FADFGTTIKQDFRLLGQTSVDR LLQLSQGQANVQQFIDEGNYTS GDNHTLRDPHYVEDKGHKYLV FEANTGTENGYQGEESLFNKA YYGGGTNFFRKESQKLQQSAK KRDAELANGALGIELNNDYTL KKVMKPLITSNTVTDEIERANV FKMNGKWYLFDSRGSKMTID GINSNDIYMLGYVSNLTGPYK PLNKTGLVLQMGLDPNDVTFT YSHFAVPQAKGNNVVITSYMT RGSSR*RQRP*IPCIRSQHGNRK RIPR/SKNLYLTKRTTAAARTSS VKKARSFSRALKNAMLS*RTAP
5661	36029	B	5707	1	1149	
5662	36030	B	5708	55	3947	
5663	36031	B	5709	4	885	

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5664	36032	A	5710	461	1560	SLQTRDLPISPPSNRIFACWGK PAWTACCNSLRARR*RAISCCP SH*KRIPRRRIFI*PKRTTAAART SSVKKARSFSRALKNAMLS*RT APSVS*S*IMITH*KK**SR*SLQ TRDLPISPPSNRIFSPAGANQR GPLAATLSGPGGEGQSAVARLT GEKKNHPGAQYANRLSPRVGR FINAAGTTGIPDWKAGSERNAI NGAIALIEGFRPLTLEPSSLIVNS CSKLEQHSTLSRAILLIYKGFCR FRNHHQTGFSPAGPNQRGPLAA TLGPGGEGQSAVARLTGEKK NHPGAQYANRLSPRVGRFINAA GTTGFPTGKRAVSATQLM
5665	36033	B	5711	1	1458	
5666	36034	B	5712	1	3573	
5667	36035	A	5713	606	1005	GGMLCGTLSPDGEQSAVAR LTGEKKHPRGDQ*QKAPLLAR W/RNPLMQLAQ/PDFPTGKRAI DTHRSVSHAHIIITHSSTLSSDIS HTDAPNTSSNNYVIAITSPSDTA PTSRTPLHRIHHTPIPIATLARP
5668	36036	B	5714	1	1566	
5669	36037	C	5715	29	2314	
5670	36038	A	5716	597	1384	ISYTVPEALSARSNPAACQHAS CRPAACPVASVGSPPQAPGGA GGHRHWPRRRWRLRQRPRPSA PGRPRRPRPRRRHRRRPRPHP HHAPPRPSCAETRSRRGGGRR PLPRPLPPGAAGAGHREVGDK AGAAGCGRRVVALAAIPVSPPS SPSSPSPSLLSAAVGVAGCFSAE LDSRRLLAPGGEGPLARSPAR CDPAAGSACPAGWSSRQSRSC ELMCAAGISCWHTGHCTWCSL SFMPLVLMILAASFRPVAVSSH
5671	36039	B	5717	1	3873	
5672	36040	C	5718	356	784	
5673	36041	A	5719	1303	1664	KRRDEIIPCVLKQLLVTFITCR ASCINESANARGEAVCVLGAR VV/SSFHQ*DGQQLIALHRLALR ELQQAVHAGLPQQAIFDGGG EIGKIPYKSKE*PENRLSVVPVW EQESTLASV

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5674	36042	A	5720	453	915	TVSRWAMLEHILLFSREPSNKE PET*AHSM*ADDKRFAAYKKK TKGGTERWDKYGRRPANGIRT GENNAKTEHLRDRDQKR/PRER ERAR*TTEITEQEGSG*GEPVEQ MRKRRAQAWSRRKSTGSQTET RSVRVTRVGLKTASESRRIRTM EQN
5675	36043	B	5721	319	1469	
5676	36044	B	5722	164	3112	
5677	36045	A	5723	1	1102	MRWTPGHEITKALQTFQRYTGI QHVHRIGMAERMWCDNRNER HTVSSSGGNRLPNPEHFQFQS VAQCTYNQTVQLDITAFLLKT KKNKHKFYPAFIHILARLMNAH PEFRMAMKDVDSCKLEQHST LSRAILLIYKGCRRFRNHHQTGF SPAGANQRGPLAATLSGPGGEG QSAVARLTGEKKNHPGAQYAN RLSPRVGRFINAAGTIGFPTGK RAVSATQLIYRELFPQPLVQLD PCSVPCMOPPTSPKSRAWVSDI ALLEFQKKKEMEKKKEKERKK ELQGGRRRRGGGWGKGRER GGRGKKRRGGGEAIRDAEKAG RLPHPDMEIRGRVEQRVGYTIE QINHMRDVFGTRLRRAEDVFPP VIGVAAHKGGVYKTSVSVHLA QDLALKGLRVLLVEGNDPQGT ASMYHGWVPDLHIHAEDTLLP FYLGEKDDVTYAIKPTCWPL DIIPSCALHRIETELMGKFDEG KLPTDPHMLRLAIETVAHDYD VIVIDSAPNLGIGTINVHPAWGS AISLLEYSFGHLAGFVASIPAPL QLVPRWDTKPVLEDASASSRFS IPQRNPTLHPTTSFPSCNPDTV DAWMRFLITWCLYTSPYSTLM GELFPFYQGMLESTKQGSQVR KVFVWTLVPWNNTQPYSRAI LLIYKGCRRFRNHHQTGFSPAG ANQRGPLAATLSGPGGEGQSA
5678	36046	B	5724	90	6258	
5679	36047	A	5725	837	1485	
5680	36048	A	5726	1	2993	
5681	36049	A	5727	1	123	
5682	36050	A	5728	1	960	
5683	36051	A	5729	507	755	NKRGYKQMEEHSMLMGRKNQ YRKNGHTAQGNL*IQCHPHQA TNDLHRIKGNDFQVHMEPKK SPHRQVNPKEQSWRHAT

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5684	36052	A	5730	274	882	PDQVDRGGAHWQTDADDPWL ADHLQHCQRCGEILRHYSGGIR GNVSAVKCAEHHPAFARLRN PQCGDFQRLDYRLFDSPGVKRR EL*TAYRFCHVAP*LMDLRSG WAAGAVYRYQSH*FTADRLRS VDMDEAGNHHSQQTSQDQKI KQRTFSLISGS*TTRTHGHREGN ITHRGLSRPNTARILCASKAHLG LPLRSSLP
5685	36053	A	5731	114	329	
5686	36054	C	5732	1	1983	
5687	36055	C	5733	1	588	
5688	36056	A	5734	1	597	
5689	36057	A	5735	1	721	MTSYNEQNKKPVTDPNEMAIH EDSNQEFKIAVVNETQSPRSP TEHLMTPPPLPTREQQPPLTVIF HYLPKSYKTAPPLSPFPDSLFLG SQPAPRDMDEAGNHHSQQTK QEQKTKHCMFSLTSGS*TMRTH GHRECTVIHRGLLGQFSQQLIN KSEFSNTVCREKSGRVLQVNM ESPL*MIQDALQDQTPKGPITV FL*LFYLDHLLRSSHKVASYLST ESRSRGSITVLFIRCSEP
5690	36058	A	5736	417	696	DRNRKANTACFQHSQVGVEQ* EHMDTGKV*SI*YGNYEHTSTC ERMEIQKATTEHLNL*S*SGSFL RFTWKMLQFSKISRIFYQLKH QQKIM
5691	36059	A	5737	325	1489	RSPTLLMHVHYIKVISWRELLI WLRAANASINPGVEQSPSGDPK TVTGFPLRLAADWVEEASVP KGVHIALSSQEQRAGDPRDLEA PSNLVISERTHRFRVSWTPPSD SVDRYKVEYYPVSGGKRQEVV RTPGVDPDLRLPAIIPQAAWLLA HLPAPSAPTELPTKHTEAQSQ RCWSLLCSVTEVAAPSQVVK EAPPSFHTGTENGYQGEESLFN KAYYGGGTNFFRKESQKLQQS AKKRDAELANGALGIIELNNDY TLKKVMKPLITSNTVTDEIERA NVFKMNGKWYLFDSRGSKM TIDENKIPRNPTYKGREGPLQGE LQTTAQGNKRGYKQMEEHSM LMDRKNQYRENGLTAQAIPQPP PSGI*GYTAPCFPWENLI
5692	36060	B	5738	1	873	

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5693	36061	A	5739	274	716	QACYIYTTEYYAAIKNDEF/TVL CRDMDEAGNHHSQQTVTRTKN QTPHVLTHRWEINNENTWTQE GEHHTPGPVMLDSAPPTLGHQ PGSSAFGLWDLHQRLRLPRPQT KGSTVGFPGEAFKLGGLGHYW LSFFPSLQTAYRGTLFPNH
5694	36062	B	5740	134	2283	
5695	36063	A	5741	3	872	
5696	36064	A	5742	1	480	SKLNSGDGCWSGARRGSAHSR SPLPSPLRPRAKMAEGLHENE TLASLKSEAESLKKGKLEERAK LHDVELHQVAERV/VGPGAVC HEDQKDPQRPREQSPVHGLVQ R*EEDRELVTGWEGDRVGFLH HKQGARGHHALHVGDGMCLC PIGMCHCLWWFG
5697	36065	A	5743	3	387	AKMAEGLHENETLASLKSEA ESLKKGKLEERAKLHDVELHQ VAERV/VGPGAVCHEDQKDPQ RPREQSPVHGLVQR*EEDREL VTGWEGDRVGFLH HKQDPDSER RWHMCPVGRGERAAAAELPRT
5698	36066	A	5744	1	1575	
5699	36067	A	5745	20	510	
5700	36068	A	5746	1	1392	
5701	36069	A	5747	1	1560	
5702	36070	A	5748	3	325	
5703	36071	C	5749	206	409	
5704	36072	A	5750	1	855	
5705	36073	C	5751	233	571	
5706	36074	A	5752	1	3600	
5707	36075	A	5753	1	4137	
5708	36076	A	5754	3	1357	
5709	36077	A	5755	3	194	
5710	36078	A	5756	3	269	
5711	36079	A	5757	1	1770	
5712	36080	A	5758	164	411	RKNRKPNTAFLTHKWELNNEN TWTQGGNITHQG\CWGVQG*R RDSIRRNT*CKCRVPGCSKPPW HVYTYVTNLHILHMYPRT

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5713	36081	A	5759	1	3095	MKMADAKQKRNEQLKRWIGS ETDLEPPVVKRQKTKVKFDDG AVFLAACSSGDTDEVLLKLLHR GADINYANVDGLTALHQACID DNVDMVKFLVENGANINQPDN EGWIPLHAAASCGYLDIAEFLIG QGAHVGAVNSEGDTPLDIAEEE AMEELLQNEVNRQGV DIEAAR KEEERIMLRDARQWLNSGHIN DVRHAKSGGTALHVA AAKGY TEVLKLLIQAGYDVNIKDYDG WTPLHAAAHWGKEEACRILVD
5714	36082	A	5760	1	591	FTVTRCYAVAQEGTYFDGSGY AALVKEGYKVQSDVNITLEVS NPRRNGVFLGISTAIVHAIGLEL VDGKVL FHVNNAGRITAAYE PKTATVLC DGKWH TLQANKSK HRITLIVDGN AVGAESPHTQSTS VDTNNPIYVGGYPAGVKQKCL RSQTSFRGCLRKLALIKSPQVQS FDFSRAFELHGVFLHSCPGTES
5715	36083	A	5761	340	739	
5716	36084	A	5762	1234	1897	
5717	36085	A	5763	1	4070	VTPRAAWLGLGFRGSAVLGLC WQPRSPPSRAAGMMNRTPDQ ELVPASEPVWERPWSVEEIRRS SQSWSLAADAGLLQLQEFSSQQ TISRTHEIKKQVDGLIRETKATD CRLHNVFNDFLMLSNTQFIENR VYDEEVEEPVLKAEAEKTEQE KTREQKEVDLIPKVQEAVNYG LQVLDSAFEQLDIKAGNSDSEE DDANGRVELILEPKDLYIDRPLP YLIGSKLFMEQEDVGLGELSSE EGSVGSDRGSIVDTE
5718	36086	A	5764	1	972	

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5719	36087	A	5765	1	2193	MVPYSLLVTLWLQKALGVRQY HVASVLCQRAKVAMRPFEPKY IHVDLLEKNINIVCK*LNRPLTL SEKIVYRHPDDPTSQEIERGGTY LQQWPDSTVMQD/ATAQMAM LQFISSRL/SKVTMPSTIHC DHLI EAQLGSEKDLHQAKDINHEVY NFLATGSVKYGLSFWKPGSGII HQIILENYEYPGVLLIGTDSHTP NGGSLGGICIGVGG/DAVDVM TGIPWELKCPKVIGVKLMGSL GWTSPKDVILKVAGILTMKGG TGAIVEYHGPVVDISCTGMVT VCNMGLEIGTTTSVFHYNLRM KKYMSKTCQADIANLADEFKD HLVPDPGCHYDQLIEVNPSELK LHNGPFTPDLAHPVAEVGKVA EKEEWPLDI*VGLWGSCNTSSY EDMGCSAGVAKQALAHGLKC KSQFTITPCSEQIRASIEQDGYA QTLRDVGGIVLANACGPCIGQL HRKDINKQEKNIIVTSYNRNF GHNDTNPETHAFITSPETVTAL AIVGTLKFNPETNYLTGKDGGK FKLEAPDADELPAEFGPGQDT YQHP/PWGTTDHISAAGP*LKFR GHLDTISNNLLSGAINIENGKAN SVHDAVTHEFGPPDTARYKK YGISWVVIGD*NYGKGSSWEH AALEPRHL\GGRAIITKSFARIHE TNLRRQGLLPLTFADPADNKIH LVDKLTIQSLKDLT/PGKPLKYI
5720	36088	B	5766	3	1205	
5721	36089	A	5767	435	1428	
5722	36090	A	5768	1	615	
5723	36091	A	5769	79	381	DKPQPHLQHTRTSKRLNRSSQA FLQNLLPQELATSAGNLAIRPR NACSLGFLVSRVPSLAATPRAP WNSGPRLSD*LLPRSSRLSS*RL TLPDRLGSPVDH
5724	36092	A	5770	38	452	
5725	36093	A	5771	435	524	
5726	36094	A	5772	284	411	
5727	36095	A	5773	1	354	
5728	36096	B	5774	1	942	
5729	36097	A	5775	1	417	
5730	36098	A	5776	88	279	EDLGRSQSESLGPEFQG*VVAIE TIWPTEPKIFTICLSGSHSQSPW NSGPRLSD*LLPRSSQLSS*RLT LPNRLRSLQDHHRCR

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5731	36099	A	5777	206	816	FIDSM LSPSR YQ* LSSQN WKKL L*ISYGT KNEPA*PKQS*AQR TK LEASH*LTSNCTTSLH*SKQHGT GTKTEKKT*AIPFRT*AWAKTS* LKHQKQWQQKPK*TKKIKYLG IQLTTDV KDLFKENYKPLLNEI KEDTNKWK NIPCSWIGGINIMK MAILPKVIYRFNALPIKIPMTFF TELEKTTLNFIWNQKRARI AKTI LSTKNKAGGITLADFKLYYKPT LVKTAWY WYQNREENLGNTIQ DIGMGKNFMTKTPKAMATKA KIDKRDLIKPKSFCIAKET TIRM NRQPTWEKLF AIYPSDKALIS GIYKDLKQIYKKKNNPIKKWA KEMNRHFSKEDIYAANRHVKN AHHHWSSEKCKSKPQ
5732	36100	A	5778	502	600	
5733	36101	A	5779	51	452	ADKQLQ QSLRIQNQCTKITSILI HQQQTNREP NHE*TPIHNCFK E NKIPRNPT YKGCEGPLQ GELQT TAQGNKK GYKQMEEHSM LMG RKNQYREN GHTAQELEKTKVH MEPKKSP HRQVNP KPKEQSWR HHTT
5734	36102	A	5780	381	528	LPPPLPAGLC**DQQQNSNAPLI H*EKERPPDDSYRIFLPRYHFHD DRI
5735	36103	A	5781	1	477	
5736	36104	A	5782	180	496	TPIHNCYKENKIPGNPTYKGCE GPLQGELQT TAAQ*NKRGQKQM EEHSM LMDRKNKYHEN/EPYSP R*FIDSM PPSNYQ* LSSQNWK KLL*GPYGT KKEPT*PRQS
5737	36105	A	5783	1	533	MGPEICTSDKLSDEADVTVLEV LARAIRQEKEIKGIQLGKEEVKL SLFADDMIVYLENPIVSAQNLL KLISNFSKVSGYKINVQKSQAF LYTNNRQTESQIMSELPFTIASK RIKYLGIQLTRDV KDLFKENYK PLLKEIKEEHSIKWK NIPSSWVG RISIMKTAILPKVYIRIKDDEWN IYRRYTEFRSLHHKLQNKYPQV RAYNFPPKKAIGNKEAVLCHG R*HDCISRKPHRLSPKSP*ADKQ LQQSLRIQNQCAKITSILIYQ*QT NREP NHE*TPIHNCFKENKIPRN PTYKGCEGPLQ GELQT TAAQGN KRGTFHQMEEHSILMGRKNQY HENGHTAQGLHPDKRR

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5738	36106	A	5784	599	870	TPANQQHYRRMTLQLENQTN RKRQQKQHQQKRPKNPIQRS ATSKIKGDGSIQP*MLPWGQSP QKALTLATAPEQRKDTTPVVRGL SLQD
5739	36107	C	5785	1	1170	
5740	36108	A	5786	317	960	KWPYCPRQFIDSMPSYQRL SSQNWKLL*SSYGTKKEPTSP SQS*AKRTKLEASRYLTSNYTT RLQ*PKQHGTTGKTEI*INGTQQ SPQK*/QPHVYNYLIFNKPEKKK QWKGDSL FNK WDMDEVGNHH SQQTITRTGNQTPHVFTHRWEL NNEITWTQGAGHHTPGPVVGL GAGRGIALREIPNANDELMVQQ TNMAHIYLCIKPARCADVP
5741	36109	A	5787	903	1050	LPPPLPAGLC**DQQQNSNAPLI H*EKERPPDDSYRIFLPRYHFHD DRI
5742	36110	A	5788	281	491	SFGYIPSNMGAGSNGISSRSLR NRHTDFHNG*TSLQSHQCKSV PISPHPLQHLLFPDFLMIAILTGVR
5743	36111	A	5789	1	381	
5744	36112	A	5790	1	3231	
5745	36113	A	5791	1312	1463	KGSATCSPQANATTTTALQML GGIPWGNACGIFTRPPQTYLN THLSTR*RPLLLLLKCVK*KGSA TCSPQANATTTTALQMLGGIP WGNACGIFTRPPQTYLNTHLS TR
5746	36114	A	5792	811	1065	IS*VSFMSITH**WKKKEQQLLG CWLA*M*SMLICV*RERI*THKL E*LIILCI*RMKKILEIQKGMFKL LPY*TKRIMLK/TLNRQLNSTVS SLHSRVDSLEKSNTKLIEELAIA KNNIIKLQEENHQLRSENKLIL MKTQQHLEVTKVDVETELQTY KHSRQGLDEMYNEARRQLRDE SQLRQDVENELAVQVSMKHEI ELAMKLLKDIHEKQDTLIGLR QQLEEVKAINIEMYQKLQGSSED GLKEKKEIIVRLYWSALCG
5747	36115	A	5793	1	1353	
5748	36116	A	5794	78	503	TKELLHSCRNYHQSEQATYRM GENFCNLLI*QRANIQLQ*TQT NLQEK NKQPHQKVGEGYQQT LKRRHLCSQKTHEKMLIITGHQ GNTNQNHNEIPSHTS*NGDH*K VRKKQGHG*SWKPSFSANYRK DKKPNTSCSHSQ

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5749	36117	A	5795	2	200	YGLMIRTIPVDPTIRTTSVSLTV RLATMNP RSRPAPVDTAPGPP HLHKNQKSSQHSQYLDLTSYC
5750	36118	A	5796	76	195	
5751	36119	A	5797	1	2445	
5752	36120	A	5798	207	475	TNLQEK NKQPHQKV GKGYEQT LLKRKHSCSQQTYEKM LIITGH QRNANQNHN DIPSHSS* NNDH* KDRKQQMLERM* RNRNAFTLL VGV
5753	36121	B	5799	1	681	
5754	36122	A	5800	1	798	
5755	36123	C	5801	78	245	
5756	36124	A	5802	16	491	EPYPDRPREPKRDPEWSWGLW DKGGLVLSLGRTRTEAHTALS RLRASMWIDRSTRAVSVHFTLY NPPTQLFTSVSLRVEILPTGSLV PSSLVESFSIFRSDSALQYHML PQLVFLALSLIHLVCVQLYRMMD KGVLSYWRKPRNWLEVASLVS FSFEK
5757	36125	A	5803	3	2791	
5758	36126	A	5804	219	392	
5759	36127	A	5805	1	1044	
5760	36128	A	5806	1	360	
5761	36129	A	5807	1	528	
5762	36130	A	5808	127	360	
5763	36131	A	5809	1	421	GRRSRLAMRPLSMSYSFDLSDV TTPESTKNLVESSMVNGGLTSQ TKENGLSTSQQVPAQRKKLLR APTLAELDSSESEEEETLHKSTSS SSVSPSPFPEEPVLEAVFTRKKP PKFLPISSTPQPERRQPPQRRHSI EKETP
5764	36132	A	5810	328	1086	
5765	36133	A	5811	1	2076	
5766	36134	A	5812	1	450	
5767	36135	A	5813	901	1506	
5768	36136	C	5814	17	106	
5769	36137	A	5815	24	330	ARDQPI/PKKGTV EGFEPADNK CLLRATDGKKKISTVVSSKEVN KFQMAYSNLLRANMDGLKKR DKKNKTKKTKTSSSSSSSSSPA AATAATTAATTAATAAQ
5770	36138	A	5816	1	2247	
5771	36139	A	5817	1	339	
5772	36140	A	5818	3	463	
5773	36141	A	5819	3	83	
5774	36142	A	5820	1	642	
5775	36143	A	5821	2	583	
5776	36144	A	5822	193	409	

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5777	36145	A	5823	3	425	
5778	36146	A	5824	1	450	
5779	36147	B	5825	82	2096	
5780	36148	B	5826	1	1554	
5781	36149	A	5827	129	522	LCTDNIEITSKVHLHCSHHGAG LGTCSPCLSLPPPPWAPVQPEP PR*APPPAPQRPVPSTIQGRKRL QLHS*SQ*DH/DAHAKVCSFTPE PARPRTHQKEETPNTSEHQKKQ TPDTPPLRTVTLTARLHGF
5782	36150	A	5828	1	541	
5783	36151	A	5829	1	714	
5784	36152	A	5830	188	287	KELPSGGHYNCRAPSSPHAGS S*SGHQPNSSQ
5785	36153	A	5831	71	689	SPVLDDCPQGPLPSEESW/EQPV TRQYPLRPEVHKGLQNVKHLK APGLVRKCSSH CNTPI LGVQKP NGQWRLVQDLRLINEAVVPLY PVVPNPYTLLSQTPEEAEWFMV LDLKDAFFCIPLHSDSQFLFAFE DPTDHTSQITWMVLPQGFRDSP YLFQQAALQDLGHFSSRGTLVL QYADDLLFATSSEASCQATLD LLNFLANQ
5786	36154	B	5832	45	1148	
5787	36155	C	5833	233	319	
5788	36156	C	5834	11	133	
5789	36157	A	5835	215	849	IKRLPLMKRMWL*LQPESELEIA GILVQ*MIE*QPKKGTNSIPVSK PSP/VVQKPNGQWRQVQDLRLI SDAVIPLYPAVSNPYTLLSQILE EAEWFTVLDLKDAFFCIPLRSD SQFLAFEDPTDHTSQLTWTVF TQGFMDTPHLFGQSLAQDLGH FSSPGTLVLQYVDDLLAKQQA TLDLLNFLANQGYKLSKLKAQ LCELLVFSSCARMHS
5790	36158	A	5836	1	449	MNKELGISSYKFCGMGRKTSVS AAKSVSATIPISRVQGLLQVLG QEVFLLLCQDQEEQAKREKRD QRKATALAMALRQTNLGGSER IENGAGQSPSRACYQCGLQG HF KKDYPTR/EPAAPCPLC*GNHW KMHCPRGQRSCDSHLAITHL
5791	36159	A	5837	1	723	
5792	36160	A	5838	186	602	
5793	36161	A	5839	1	843	
5794	36162	B	5840	1	1779	
5795	36163	A	5841	1	1182	

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5796	36164	A	5842	23	302	LSQWKNRWTRTFLASLSVIANI LEPLLNIHVAVWMLPN*S*V KKQVIM\FWNWWVLGLTDFKN EATDPRVCSWPCWLRSEADL CGECYSS
5797	36165	B	5843	1	2622	
5798	36166	A	5844	279	1024	
5799	36167	A	5845	3	3619	
5800	36168	B	5846	1	1898	
5801	36169	A	5847	1	420	
5802	36170	A	5848	1	1632	
5803	36171	A	5849	1	597	KYLTKKTQAASVEAVKMLDEI LLQLSASVPVDVMPGEFPTNY TLPQQPLHPCMF/LATAYSTLQ LVTNPYQATIDGVRFLGTSGQN VSDIFRYSSMEDHLEILE*LRVR HISPTAPDTLGCYPFYFCGNTPS FGSKIIRGPEDQTVLLVTPDFS ATQTA CLVNLRS/LACQPISFSG FGAEDDDLGGGLGWAPDSKKW
5804	36172	A	5850	1	1490	RDAARRALNLLGLGEAVWTKQ VRSVAMFSEQAAQRAHTLLSPP SANNATFARVPVATYTNSSQPF RLGERSFSRQYAHYATRLIQM RPFLENRAQQHWGSGVGKKL CELQPEEKCCVVGTLFKAMPL QPSILREVSEHNLLPQPPRSKY IHPDDEL VLEDELQRIKLG TID VSKLVTGTVLA VFGSVRDDGK FLVEDYCFADLAPQKPAPPLDT DRFVLLVSGGLGGGGGESLLG TQLLVDVVTGQLGDEGEQCSA AHVSRVILAGNLLSHSTQSRDSI NKAKYLTKKTQAASVEAVKM LDEILLQLSASVPVDVMPGEFD PTNYTLPQQPLHP\CMFPLATA YSTLQLVTNPYQATIDGVRFLG TSGQNVSDIFRYSSMEDHLEILE WTLRVRHISPTAPDTLGCYPFY KTDPFIFPECPhVYFCGNTPSFG SKIIRGPEDQTVLLVTPDFSAT QTA CLVNLRLSLACQPISFSGFG AEDDDLGGGLGLGP
5805	36173	B	5851	13	441	
5806	36174	A	5852	3	279	

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5807	36175	A	5853	23	841	EKAKEFRRAEEKKKEVPAVPET LKKK*RNFAELKIKRLRKKFA QKMLQRARRKFIHEKAKHYH KEYRQMYRT\EILMAIRMARKA GNFYVPAEPKLAFVIRIRGINGV SPK\VRK\VLQLLRLRQIFNGNLL *SSTKAS\INMLRDCRSHILAWG VPQILKSVNELIYK\RGYGKINK KRIALTDNALIARSLGK\YGIL LAWEDLIHEIYTV\GK\RFKEAN NFPVGPSNLSSPPRWK*KKKTT HFCKKVEDAGNREGTRSNRP YLEGMDLRCLP
5808	36176	C	5854	57	287	
5809	36177	A	5855	1	450	
5810	36178	A	5856	1	549	
5811	36179	A	5857	3	581	EQRKIPLVPENLLKKRKAYQAL KATQAKQALLAKKEQKKGKG LRFKRLESFLHDSWRQKRDV RLRRLEVKPHALELPDKHSLAF VVRIERIDGVSLLVQRTIARLRL KKIFSGVFVKVTPQNLKMLRIV EPYVTWGFNLKSVRELILKRG QA\KVKNKTIPLTDNTVIEEHLG ECYSLGVSWGRKPGSLKL

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5812	36180	A	5858	1	2652	MFGRSRSWVGGGHGKTSRNIH SLDHLKYL YHVLTKNTTVTEQ NRNLLVETIRSITEILIWGDQND SSVDFDFLEKNMFVFFLNILRQK SGRYVCVQLLQTLNLFENISHE TSLYYLLSNNYVNSIIVHKFDFS DEEIMAYYISFLKTLCLKLNNH TVHFFYNEHTNDFALYTEAIKF FNHPESMVRIAVRTITLNVYKV DNQAMLHYIRDKTA VPYFSNL VWFIGSHVIELDDCVQTDEEHR NRGKLSDLVAEHL DHLHYLND ILIINCEFLNDVLT D HLLNRLFLP LYVYSLENQDKVFLIIHHAPLV NSLAEVILNGDLSEMYAKTEQD IQRSSVLPTLSSLWQGSLSLNQ LQSGLHKCSSHLCGAQAADS VTGEIPAIRSLEWLISAGSKART FFFLKMLIGFWEKVDCEYQRR QVLSTRLQEALPSNRLTDVA AV HSSCMLGFGSTAPRGSWIGDPA AVHLP L PGELAEHLGSKGTTTV TKHQ PQA KPSIRCFIKPTETLER SLEMNKHKGKRRVQKRPNYK NVGEEDEEKGPTEDAQEDA E KAKGTEGGSKGIKTSGESEEIE MVIMERSKLSELAASTSVQEQN TTDEEKSAATCSESTQWSRPF LDMVYHALDSPDDDYHALFVL CLLYAMSHNKENLLKKRKAYQ ALKATQAKQELLAKKEQKKGK GLRFKLLESFLHDY WQQKPKD
5813	36181	A	5859	1	405	LEISIMAASISGYTFSAVCFHSA NSNADHEGFLLGEVRQEETFSIS DSQISNTEFLQVVKVIGWYRFR RNTQQQMSYREQVLHKQLTRI LGV PDLV FLLFSFISTANNSTHA LEYVLF RPNRRYNQRISLAIPN
5814	36182	B	5860	1	843	

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5815	36183	A	5861	3	1260	EISIMAASISGYTFSAVCFHSAN SNADHEGFLGGEVRQEETFSISD SQISNTEFLQVIQIYNHQPCSKL FSFYDYASKVNEESLDRILKDR RKKVIGWYRFRNTQQQMSYR EQVLHKQLTRILGVPDLVLLF SFISTANNSTHALEYVLFPRNRR YNQRISLAIPNLGNTSQQEYKV SSVPNTSQSYAKVIKEHGTDF DKDGVMDIRAIYQVYNALQE KVQAVCADVEKSERVVESCQA EVNKLRRQITQRKNEKEQERRL QQAVALSRQMPSESLDPAFSPRM PSSGFAAEGRSTLGDAEASDPP PPYSDFHPNNQESTLSHSRMER SVFMPRPQAVGSSNYASTSAGL KYPGSGADLPPQRAAGDSGE DSDSDYENLIDPTEPSNSEYSH SKDSRPMAPDEDPRNTQTSQI
5816	36184	A	5862	1	742	
5817	36185	A	5863	1	3063	MSLEVDRSVETMCSGDEILLPD LPKADVADPLWGFPPVQNCLS LARSDSREQGLVLMESRNRE VVPVGSYSKDGAKSLKGDVP ASEVTSKDSTFSQFSPISAEEC GDDEKIKVDDPLTRRTCQASG SAPQQDYDKLKAFFGENSSKT GLSPSGNMEKNKVVKREAEAN SINLSVYEPFKVRKAEDKLKEN SDNVLENRVLDGKLSSEKNDT CLPGTAPSKTKSSSKLSSCSSAI MALSAKKAASDSCKEPV
5818	36186	A	5864	2	626	LCQHNRIKHKGIRKVYACSHCP DSRRTFTKRLMLEKHVQLMHS LKDPDLKE/TDRCHQ*GGNRNK RRH/LSSPVPSGSWKNQFSR/CA MCGFTTENLLQFHEHIPQHKS SSSYQCQECGLWYTSHVSLSRH LFIVHKLKEPQPVSKQNGAGED NQQENKPSHEDESPNGTVSDRK CKVCVKTFETEALNTHMRIH GMAFIKSKRMSSAKK

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5819	36187	A	5865	1	765	MQRDVYISHVRKEHGKQMKK QPCCQRDKPFSSSHSLCWHNRI KHKVIRKVYTCSHCSDSRGTFT KQLMLEKHVQLTHGIKDPDLK E/TDRRHQ*GCNRNKRPPQGPQ SQVEVERTGSGVQASQ\GAITQ PLKKLKINVFKVHKCARA\GFT TENLLQFHEHIPQHKS DGSSYQ CREHLFVVHKLKEPQPVSKQN GAGEDNQENKPSHEDESPNG AMSDRKCKVCAKTFETEAALN THMQTHGMAFIKSKRMSSDEK
5820	36188	A	5866	878	1095	AFFLDLTLYTQFSRC*SRAFPFA HPTAMACSSRR/LIRVQEQDAA QVTHQSFKDDLCVVLGDTLHH RFFLIFRH
5821	36189	A	5867	1	1137	
5822	36190	A	5868	1	1380	
5823	36191	A	5869	55	558	
5824	36192	A	5870	1	897	
5825	36193	A	5871	1	565	
5826	36194	B	5872	22	1696	
5827	36195	A	5873	295	522	
5828	36196	A	5874	3	3678	IPAPVSGRPPPGLLAEGKLSGPR PMCRTRLGSHTAASAPARMWL FHTLLCIASLALLAAFNVDVAR PWLTPKGGAPFVLSSLLHQDPS TNQTWLLVTSPRTKRTPGPLHR CSLVQDEILCHPVEHVPIPKGRH RGVTVVRSHHGVLICIQVLVRR PHLSSELGTGCSLLGPDLRPQA QANFFDLENLLDPDARVDTGD CYSNKEGGGEDDVNTARQRRRA LEKEEEEDKEEEDEEEEEEAGT EIAIILDGSGSID
5829	36197	A	5875	1	3189	

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5830	36198	A	5876	1119	2463	LRAGGPGQGKGPAHPGRRVD ELLGHPTAVGCAKGTDCPTPT PGGLWV*GVQEESDLPTAVDS SRPDIRDQAWASVHWELVYVHG SSFINT*GERGAGY/AVITW/STV VEARSMPQGTSAQKAELIAFIR ALELSEALAKTVRQRCVSCRQ HHARQGPAVPPGIQAYGAAPFE DLQVDFTEMPKCGDIRKIVTGD VNTPAILGVVSSPPSHIGNNITE DPELQPILAGLSLSMYLVTVLR NLLIILAVSSDPHLHTPMCFFLS NLCWADIGFTLATVPKMIVDM QSHTRVISYEGCLTRISFLVLFA CIEDMLLTVMAYDCFVAICRPL HYPVIVNPHLCVFFLLVYFFLSL LDSQLHSWIVLQFTIHKVNEISN FVCDPSQLLKLACSDSVINSIFM YFHSTMFGFLPISGILLSYYKIVP SILRISSDGKYKAFSTCGSHLA
5831	36199	B	5877	1	1830	
5832	36200	C	5878	109	245	
5833	36201	B	5879	1	801	
5834	36202	B	5880	171	288	
5835	36203	B	5881	49	502	
5836	36204	B	5882	1	639	
5837	36205	A	5883	1	821	MSGQDFLLWTPEDNSDESD AEGEHGDGAEEEAPPPVPRPGP KPAGLGRRPCPYEQAGGDGP EEQWMSFCWDIPRKSGAPRERI TLRRHLEDGCKVSKKKAQICR QQKDPQEESPAQFYERLCEAYG MYTPFDPDSPENQRMHMLV RQSAEDMRRKLQKQAGLAGM NPSQLLERASQVFVNRDAV/TP* GKQQREWRRERG*YDSQYRRGG TQPCDIVPNIRRRERR*YHSQYRR RARPPGPH*SERGALRPGSLPRQ AA*RVPSGPADGQ
5838	36206	A	5884	1	1860	

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5839	36207	A	5885	2745	3732	IRIGKNYFKVHMEPKKSPHRQV NPKPKEQSWRHHTT*LQTLQG YSNQNSMPGPTPQPSTPAPGG NLRNPQSSDLLQVTKQQGQAL AIQREAPLHRIPAPEAIPWYFQP QPATQLGSPVPDPSSAMM/SR RAHRSRGPDRQGYPLQGD*PGE PRPQEH*RGHSQERLPSSEKQTP ICPPAQATQHPEEPDAHQPYKH LFQVCAHQGHPVAQRRN*PGY WERYHSAEDPELQPILAGLSLS MYLVTVLRNLLIS
5840	36208	B	5886	1	2379	
5841	36209	B	5887	1	6741	
5842	36210	B	5888	165	928	
5843	36211	A	5889	56	2028	
5844	36212	B	5890	1335	3804	
5845	36213	A	5891	365	1573	
5846	36214	A	5892	1	1491	
5847	36215	A	5893	25	458	
5848	36216	A	5894	1	1194	MGGNAADKFRAGVELALQSG NKVCVCSPRTTISGDAVAPRSV LPGCRHIPGEISQHSWCWAGRS LSSRKRGSLFRRMGFIKVVKNK AYFKRYQVKFRRR\RKGKT\DY YARKRLVIQDKNKYNTPKY\R MIV\RV\TNRD\ICQMLY\RRIE GDMIVCAAYCTPNLPKIWV*RV GLTNAAAAYCTGLLLARRLL NRFGMDKIYEGQV\ELTGDEYN VESIDGQPGAFTCYLDAGLAR\ TTTGNKVFGAPEGKLMGGLS IPHSTK\RFPGYDSE\SKEFNA\E VTSGKHIMGPKCLQNYM\RYL ME\ED\EDAYKK\QFS\QYIK\NS VT\PDMM\EEMYK\KAHAAIRE ESSSMEKKAQGGKFKKKRWNR PKMSLAQKKDRVAQKKASFL QSSRSGLLES\LT\PAIFP
5849	36217	A	5895	1	1191	
5850	36218	A	5896	21	159	PRSSVRPAGGFSSTCPPSWAAS RSC\TTSHGCGHQ*CAGTGTQTR L
5851	36219	A	5897	1	1062	
5852	36220	A	5898	1	246	
5853	36221	A	5899	1	642	
5854	36222	A	5900	2	648	
5855	36223	A	5901	1	555	
5856	36224	B	5902	151	513	

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5857	36225	A	5903	1	2915	VSLAFCQPLSLSLSPLLPLASSL APERTHLPGPGSLLLSPSPFAR PREPRGCVTAAPPDKMDTAE DICRVCRSEGTPEKPLYHPCVC TGSIKFIHQECLVQWLKHSRKE YCELCKHRFAFTPIYSPDMP SRL PIQDIFAGLVTSIGTAIRYWFHY TLVAFARWEVVLLPACRIYKCL FLGSVSSLLTLPDMLSRKNLL ADCLQGCFFVTCTLCAFISLV WLREQIVHGGAPIWLEHAAPPF NAAGHHQNEA
5858	36226	A	5904	3	907	
5859	36227	B	5905	102	406	
5860	36228	B	5906	1	5241	
5861	36229	A	5907	1	519	
5862	36230	A	5908	1	3067	TRDAAMAEAALEAVRSELREF PAAARELCVPLAVPYLDKPPTP LHFYRDWVCPNRPICIRNALQH WPALQKWSLPYFRATVGSTEV SVAVTPDGYADAVRGDRFMM PAERRLPLSFVLDVLEGRAQHP GVLYVQKQCSNLPSELPQLLPD LESHVPWASEALGKMPDAVNF WLGEAAVTS LHKDHYENLYC VVSGEKHFLFHPPSDRPFIPYEL YTPATYQLTEEGTFKVVDEEA MEKAEVSRTCLLTVRVLQA
5863	36231	A	5909	1	429	
5864	36232	A	5910	1	690	
5865	36233	A	5911	1	376	
5866	36234	A	5912	1	471	
5867	36235	A	5913	1	606	
5868	36236	A	5914	3	2756	SPGGRTPAARDSIVREVIQNSKE VLSLLQEKNPAPKPVLAIIQAG DDNLMQEINQNLAEEAGLNITH ICLPDSSEAEIIDEILKINEDTRV HGLALQISENLFSNKVLNALKP EKDVDGVT DINLGLKLV RGDAH ECFVSPVAKAVIELLEKSGVNL DGKKILVVGAHGSLEAALQCLF QRKGSMTMSIQWKTRQLQSKL HEADIVVLGSPKPEEIPLTWIQP GTTVLNCSHDFLSGKVGCGSPR IHFGGLIEED
5869	36237	A	5915	3	404	RLKEKKLVKEVIAVSCGPAQCQ ETIRTALAMGADRGHVEVPPA EAERLGPLQVARV/AVVTADLR LNEPCYATLPNIMKAKKKKIEV IKPGDLGVDLTSKLSVISVEDPP QRTAGVKVETTEDLVAKLKEIG

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5870	36238	A	5916	1	334	
5871	36239	A	5917	88	870	MADVRVLVAVKRVIDYAVKIR VKPDRGTGVVTDGVKHSMPFC EIAVEEAVRLKEKKLVKEVIAV SCGPAQCQETIIRRTALA\MGA\ID RGIHVE\VPPAEAERF/GVPLQV ARVLGQAWQRRRLDLVLLGK QA\IACTDCNQ\TGQMTAGFLD WPQGTFFASQVTLEGDKLKVER EIDGGLETLRKLPAVVTTADLR LNEPRYA\TLPNIMKAKKKKIE VIKPGDLGVDLTSKLSVISVEDP PQRTAGVKVETTEDLVAKLKEI
5872	36240	A	5918	1	774	
5873	36241	A	5919	1	1557	
5874	36242	A	5920	1	759	
5875	36243	A	5921	305	638	
5876	36244	A	5922	364	540	
5877	36245	A	5923	9	111	
5878	36246	A	5924	1	594	
5879	36247	A	5925	169	594	
5880	36248	A	5926	37	936	
5881	36249	B	5927	91	2043	

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5882	36250	A	5928	1	2298	MSRKGPRAEVCADCSAPDPGW ASISRGVLVCDECCSVHRS LGR HISIVKHLRHS AWPPTLLQMVH TLASNGANSIWEHSLLDPAQVQ SGRRKANPQDKVHPKSEFIRA KYQMLAFVHKLSCRD\DDGVT AKDLASKAN*HSSVRITGKPWK TCLRLLS\LG A\QANFFHPEKGT TPLHVA AKAGQTLQAELLV VY GADPGSPDVNGRTPIDYA\ RQA GHHELAERLVE C\QYELTERLA FYLCGRKPDHKN GHYIIPQMAD SLDLS ELAKAAKKKLQALS NRL FEELAMD VYDEVDRREND AV WLATQNHSTL VTERSAVPFLPV NPEYSATRNQGRQKLARFNAR EFATLIIDILSEAKRRQQGKSLSS PTDNLELSLRSQS DLDQHDYD SVASDEDTDQEPLRSTGATRSN RARSMDSSDLS DGA VTLQEYL ELKKALATSEAKVQQLMKVNS SLSDELRR LQREIHKLQAENLQ LRQPPGPVPT PPLPSERA EHTPM APGGSTHRRDRQAFSMYEPGS ALKPFGGPPGDEL TTRLQPFHS TELEDDAIYSVHVPAGLYRIRK GVSASAVPFT PSSPLLSCSQEGS RHTSKLSRHGSGADSDYENTQS GDPLLGLEGKR FLELGKEEDFH PELES LDGDLDPGLPSTEDVILK TEQVT KNIQELLRAAQEFKHDS FVPCSEKIHLAVTEMASLFKRP
5883	36251	A	5929	1	924	
5884	36252	A	5930	214	387	RRAFHTPVT SARSTLHSFGQL RLPHSM*SGGTLLISMMQANQS LSLEFSK WTSFPLD
5885	36253	A	5931	1	1639	
5886	36254	A	5932	1	1098	
5887	36255	A	5933	1	546	NSSQVLQF*YLWVNEAPFRLLT MPQPYPQINITADQLWGSVAVL V*MHNGLPGLCI*AWEKTTSG GEQYPSSSAIKQGPKEPYADFIA RLQESLKKVIADLAAQDIVLWL LAFDNANPECQAALRPIRGKAH LVDYTKVCDGIRDKLHKATLL AQAMAGLRMGKGNTPFPGACF NCGKHGH

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5888	36256	A	5934	1	648	MGQVWGLVHFTLEVFTGDEE EQEYSEVTEDVTEHVYLPKA KVAKEEEAGIQQARQEGDLEA WQFPVRIHPPDQQENITATFEPF PFKLLKELKQAINQYGPSPFV MGLLNVTVSSQMIPTDGDPLT RACLTQAQFLQFKTWWADEAS IQAARNAWAQPQINITADQLLG VGGWAGLDAQFVMQDDAIEQ LRGVCIRAREK\IT*CGEQYPSF
5889	36257	A	5935	120	254	
5890	36258	C	5936	366	479	
5891	36259	A	5937	1	933	
5892	36260	A	5938	1	840	MGKVWGLVHSTLELFHTDVEE EGEYNEVTEEVTKHVYLPKA KAAKEGEVHPYHSAPPHYFE ENDPPDLSFLEDGTGPRLA TTKANAKQPLLLSPSMHR/PLP TRPFLAGQATALPQGV*PLIAP PTRPHLEHCSTQ*RPQAPTLGE ITPVTVPQAPLHPRAVQPW/HST PTRSWLQAVMPGIAPPSRSPW AVQLRILTYLGCLSTTPAAVQS LSQPPASVRQARVPQAPASSLC QEKPPSPPPVAPHGAAAAARPP SYHSSCASVAVVAANVLIG
5893	36261	A	5939	1	134	MGQVW*KSQSPKA*EPGVSCP RAGRREASVPRWYSS
5894	36262	A	5940	1	1158	
5895	36263	A	5941	1	673	MGIALGSPTTGPKAMQNLSIG PAGILLPQPVMTPGCPAAAPPV APRCGYVLSEDAWGNLQGLCT GLSCGQPVPWATDSGGAQDP VALLPPFPSRGLLGPSQMORSQ VVKGGRQSEISSQNKKVIADLA AQDIVLQLLAFDNANPDCQAA LRPIRGKAHLVDFIKACDVIGGI PNLLHPRGLRAITIAVFGKQ\IR TSGSNPLRSTFLSRSRISKNCSA EV
5896	36264	A	5942	1	1182	

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5897	36265	A	5943	1056	2128	TQPPTWGQIKKLSQMVEENLR KAGQLVTMNNLMVAMIVVITT TEEQEYSEVTEEVTEQVYLP AKVAKEGEVHPYPSAPPHYFFE EKEWPDPPDLSFLEDTRQKVVA PVTVRAAPRATVLSSIQAGIQQ AR*EGDLEAWQFPVRIHPPDQQ GNIIIVTFEPFPFKLFKEFKQAVN QYGPSPFVMGLLKNVAVSSW MIPTDWDALTRACLTPAQFLQF KTCAMKQGPPEPYVDFIARLQE SLKKMIADSAAQEIVLQLLAFD NAHPDCQAALRPIRGKAHLVD YVKACDGIGEYTPSTYEKKVN CKTASCRSFRRYPEEGIVITGDD SSMRVVVPEDLPVGQDVEVED RDIDDPDPV
5898	36266	A	5944	1	300	
5899	36267	A	5945	1	373	
5900	36268	A	5946	1	2976	
5901	36269	A	5947	287	544	
5902	36270	A	5948	831	4555	
5903	36271	C	5949	108	434	
5904	36272	C	5950	145	402	
5905	36273	A	5951	3	1104	GSRPGGHTLQSHRGRHAQGLR SPLLAPVCLGCGTWGQRRFLW SLKI*RLLCWF/CRRLQINCKNK PAIPRGPT/GPSEKSGLLLQDQG DTTNTTEENSKSLENIFGRVIKE NFQSLVRDLDIQYKKHKEHPG NSSQKDHHLGTLSGYPKLRQR KES*ELSDRSTRKISQS/YNLYTP NTGAPRFIKQLLTDLRNEIDSNT IIVGYFSTPLTALDRSSRQKVND ETVDLNYTLEQMDLTEIYRTFH PTTTEYTFYSTVHGTFKIDHMI CHKMSLNEFKKTEIISSTLSDHS GIKLEINSKMNLQNHANTWKL NNLLLNEHWVKNEIKMEIEKFF KLNDSDNTTYQNLWDMAKAV LRGKFIALNTYIKKMM
5906	36274	B	5952	1	2367	
5907	36275	A	5953	21	132	WREGARQCQEDPAEFLSD*DW ADPGPPHNAPGQNW
5908	36276	A	5954	1	1461	

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5909	36277	A	5955	31	802	SAWWNSRELLDQSRSRSGFCF *EYPPTSGTEQESVSGNRALCSS LRMNGDQNSDVYAQEKQDFV QHFSQIVRVLTEDEMGHPEIGD AIARLKEVLEYNAIGGKYNRGL TVVVAFRELVPRKQDADSLQ RAWTVGWCVELLQAFFLVAD DIMDSSLTRRGQICWYQKPGV GLDAINDANLLEACIYRLLKLY CREQPYLNLIELFLQSSYQIEI GADPGPPHSPPRAMWILSDSLK RGTNLLSSTRQLSTPSTFL
5910	36278	A	5956	1	532	RLNEAEQKYKDIQDKLQIIEET NARAPECMALKADVVAKKRA YNEAEVLYNRSLNEYKALKKD DEQLCKRIEELKK/RVLTN/RLE PERLERQKKISWLKERVKAFQN QENSVNQEIEQFQQALEDKKEE HGKIKREKLDVKHALSYNQRL LKEKDKSKTDRLKRFGNVPAL LEAIDD
5911	36279	A	5957	121	475	
5912	36280	A	5958	131	2891	
5913	36281	A	5959	131	3101	
5914	36282	A	5960	44	292	CQDYRWLLASSVLCWLY*KTQ QSDTEDLLCSAPTGPNNPEEDD GKS*PEKCRQMT*KKWSINCKC FFASSHNTTLSIGLFLR
5915	36283	B	5961	26	239	
5916	36284	A	5962	131	3121	LVSFLLFQDALPEGDASPLGPY LLPSGAPERGSPGKEHPEERVV TAPPSSSQSAEVLGELVLDGTA PSAHH DIPALSPLLPEEARPKHA LPPKKKLPSLKQVNSARKQLRP KATSAATVQRAGSQPASQGLD LLSSSTEKPGPPGDPPIVASEE ASEVPLWDRKESAVPTTPAPL QISPFTSQPYVAHTLPQRPEPGE PGPDMAQEAPQEDTSPMALMD KGENELTGSASEESQETTTSTIIT TTVITTEQAP
5917	36285	A	5963	1	1185	
5918	36286	A	5964	495	636	PSVVLDINVSFNHWSAIFLTMEV PFCHRVRSHAMESR*GSVLP*N KPQ
5919	36287	A	5965	2	376	

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5920	36288	A	5966	3	688	GTSAGDGC PHPHTVLWPPDIMP PKKDVPVKKPAGPSISKPAAKP AAAGAPPAKTKAEPVQPAPQ KTQEPPVDLSKVVIEFNKDQLE EFKEAFELFDRVGDGKILYSQC GDVMRALGQNPTNAEVLKVLG NPKSDEMNVKVLD FEHFLPML QTVAKNKDQGT YEDYVEGLRV FDKEGNGTVMGAEIRHVLVTL GEKMTEEEVEMLVAGHEDSNG CINYEELVRMVLNG
5921	36289	A	5967	54	540	AVYMCDLTENQTADLIPSTNEF KEA\FQLFDR TGDGKILYSQCG DVMRALGQNPTNAEVLKVLGN PKSDEMNVKVLD FEHFLP\MLQ TVAKNKDQGT YEDYVEGLRVF DKEGNGTVMGAEIRHVLVTLG\ EKMTEVEDVHMLVAGHEDSNG CINYEAFVRHILSG
5922	36290	A	5968	1	405	
5923	36291	A	5969	93	506	
5924	36292	B	5970	43	615	
5925	36293	A	5971	2	598	TRTSLHAALFSWDPVGTSLTFI SHLEVKKGMLVGIVGKVGCGK SSLLAAIAGELHRWEQVQCGG HTLH*APEQMLRGHVAVRGLS KGFGLATQEPW IQFATIRDNILF GKTFDAQLYKEVLEACALNDD LSILPAGDQTEVGEKGVTLSGG QRARIALARAVYQEKELYLLD DPLAAVDADV ANPPACTGCNP
5926	36294	B	5972	137	371	
5927	36295	A	5973	1	1398	
5928	36296	A	5974	1	915	
5929	36297	A	5975	40	564	
5930	36298	A	5976	62	280	
5931	36299	A	5977	17	744	
5932	36300	A	5978	1	537	
5933	36301	A	5979	242	576	AANS LYKGSNSAALIILVGP*IS CLTHPVYMK*APS*TICLLYSM VILKALFFPQNINFI LVPKSRHS
5934	36302	A	5980	924	3473	
5935	36303	A	5981	1	604	
5936	36304	A	5982	288	732	RNCIANYDFLILPTSF*WCSFFV LLFLFLSLSSLKLHSDLDKGE GTAKYTLSGDGAGPVFTIDETT GD\HAI RSLDRECKPFYTLRVA Q\AVDIETRKPLEPESEF\IKVQ DI\NDNEPKFWG WDLMVATGP QKWSPVG*VGQIKIL
5937	36305	A	5983	1	1510	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
5938	36306	A	5984	1	603	
5939	36307	A	5985	250	505	GFSPTWQ*MNTHPSLMCFSPSR TTGSAAAN*RGQQKSGVPFWS* SHVKGKDQIPVPICPCTTAPVT MESTCIC*PTHVSCKTLMV
5940	36308	A	5986	3	131	RVLVPDIRGAI*AVPKSPSIKSY ALPRALFLLPPYPDDLGI
5941	36309	A	5987	1	913	
5942	36310	A	5988	5	177	
5943	36311	A	5989	3	383	
5944	36312	A	5990	1	1323	
5945	36313	A	5991	342	594	
5946	36314	A	5992	1	321	
5947	36315	A	5993	3	601	
5948	36316	A	5994	1	1023	
5949	36317	A	5995	1	606	
5950	36318	A	5996	1	1536	
5951	36319	A	5997	2	1394	
5952	36320	A	5998	371	1045	
5953	36321	A	5999	3	360	
5954	36322	A	6000	1	636	
5955	36323	C	6001	1	861	
5956	36324	A	6002	1	711	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
5957	36325	A	6003	18	2446	AGSPPRADAAAGLWERGHLLS AAVAAMGKRDRADRDKKKSR KRHYEDEDDEEDAPGNDPQE AVPSAAGKQVDESGTKVDEYG AKDYRLQMPLKDDHTSRPLWV APDGHIFLEAFSPVYKYAQDFL VAIAEPVCRPTHVHEYKLTAYS LYAAVSVGLQTS DITEYLRKLS KTGVPDGIMQFIKLCTVSYGKV KLVLKHNRYFVESCHPDVLIHL LQDPVIRECRLRNSEGEATELIT ETFTSKSAISKTAESSGGPSTSR VTDPPQKSDIPMDLDFDFEQM DKDEEEEEETQTVSFEVKQEMI EELQKRCIHLEYPLLAEDFRN DSVNPADINIDLKPTAVLRPYQE KSLRKMFGNGRARS GVIVLPC GAGKSLVGVTAACTVRKRCLV LGNSAVSV EQWKAQFKMWSTI DDSQICRFTSDAKDKPIGCSVAI STYSMLGHTTKRSWEAERVME WLKTQEWGLMILDEVHTIPAK MFRRVLTIVQAHCKLGLTATLV REDDKIVDLNFLIGPKLYEANW MELQNGYIAKVQCAEVWCP MSPEFYREYVAIKTKKRILLYT MNPKNFRACQLIKFHERRNDK IIVFADNVFALKEYAIRLNKPYI YGPTSQGERMQILQNFKHNPKI NTIFISKVGDTSF DLPEANVLIQI SSHGGSRRQEAQRLGRVLRK KGMVAEEYN AFFYSLVSQDTQ
5958	36326	A	6004	1	933	
5959	36327	A	6005	1	879	
5960	36328	A	6006	1	727	
5961	36329	A	6007	1	1509	
5962	36330	A	6008	1	1698	

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5963	36331	A	6009	2465	2751	VPTSSAPMPWPSRQWERSRT MTVISSSQLMALGP*RTAQVLA AAPA*LGASSAARGIDPQAGKT QK\ETDIATMQLCAN\KLDKKDF FGKSDPFLVFYRSNEDGTFTICH KTEVV\KNTLNPVWQPFIPVRA LCNGDYDRTVKIDVYDWRD GSHDFIGFTTSYRELSKAQNQ FTVYEVLNPRKKCKKKKYVNS GTVTL\LSFSVDSEFTFVDYIKGG TQLNFTVAIDFTASNGETRMSE KVGGNPLQPTSLHYMSPYQLS AYAMALKAVGEI\QDYDSDKL FPAYGFGAKLPPEGRISHQFPLN N\NDEDPNCAGIEGVLESYFQSL RTVQLYGP\TYFAPVINQVASLP
5964	36332	A	6010	1	1059	
5965	36333	A	6011	255	405	
5966	36334	A	6012	251	1199	
5967	36335	A	6013	1	1791	
5968	36336	A	6014	335	984	
5969	36337	A	6015	1	127	LPLRLSYEIYLYFTF*KPEHNKS HFLESHLIRNTRSALNTRK
5970	36338	A	6016	1	774	

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5971	36339	A	6017	186	2699	PRGAKPAVPAGPERPGPGGPC SPRPMVLPTCPMAEFALPRHSA VMERLRRRIELCRRHHSTCEAR YEA VSPERLELERQHTFALHQR CIQAKAKRAGKHRQPPAATAP APAAPAPRLDAADGPEHGRPA THLHDTVKRNLD SATSPQNGD QQNGYGDLPFGHKKTREAPL GVAISSNGLPPASPLGQSDKPSG ADALQSSGKHSGLDSL NKKR LADSSLHLNGGSPSEFPLSLN KELKQEPVEDLPCMITGT VGSIS QSNLMPDLNLNEQEWKELIEEL NRSVPDEDMKDLFNEDFEEKK DPSSGSATQTPLAQDINIKTEF SPA AFEQEQLGSPQVRAGSAGQ TFLGPSSAPVSTDSPSLGGSQTL FHTSGQPRADNPSNLMPASAQ AQNAQRALAGVVLPSQGP GGA SELSSAHQLQQAIAKQKREQML QNPQATPAPAGQMSTWQQT GPSHSSLDVPYPMEKPASPSSY KQDFTNSKL/PHDA*CE*EFPSA RRPLPPAQPCPAESPATE*LES ELRE/YTRGLCWIRQYKTPFSL QSGLWARQPGVWPEQASPDGL SSPAAVPYKSRAELPVSDEAKA RKYAFPITGSTWPGAEPFQCPC ASPGYQCWDPAACRVRGQLPQ QLPLSQQPATGRCNEASVAFG PTETKGAAAKAFTATAVPSEAT APSRGTGEATVSAPSDPPTTPVP
5972	36340	A	6018	1	1062	
5973	36341	A	6019	3	566	ASRPPVTLRLVVPASQCGSLIG KGGCKIKEIRESTGAQVQVAGD MLPNSTERAITIAIPQSIIECVK QICVVMLESPPKGV TIPYRKPSP SSPVIFAGGQAYTIQGQYAIQP DLTKLHQLAMQQCHFPMT HG \NTGFQWALE\S\FPEV\KGYW\ AGLDASAQTTSHELTIPNDLIGC IIGRQGAKIN
5974	36342	A	6020	2	531	TLRSSWQVVRTGTAQAATVRG FPPHPPRPISASTLTLEGPPEAY TIQGQYAIQPD LTKLHQLAM QQSHFPMH/GDGIHSDYSAGLD ASA\QTTSHELTISKRILIGLA*S GRSRAPKINGGSRQMSGAIKI ANPVEGSTD*GRFTITGSAASIS LAQYLINVRLSSETGGMGSS

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
5975	36343	A	6021	181	1369	PLKVQLPRTLDDMDTGVIEGGL NVTLTIRLLMHGKEVGSII\GKK GESVKKMREESGARINISEGNC PERIINTLAGTH*LPSFKAFAMIN DKLGRRDISSSMITNSTAAQLGP PVTLLKLGAPAS\QCGSLIGKGG CKIKEIRESTGAQVQVAGDMLP N\STEAGHHYLLGIPQSIIECVK QILRGSCWETLFPSSPPKGV TIP YRPK\SSSPV\IF\AGGPGQVPA QAATVRAFPPTPPRCGSTLTWE GPPLEAYTIQGQYAI PQPD\LT LAHQLAMQQSHFPMTHGNTGF SG\IESSFPVEVKGYWAGLADAS AQTTSHELTIPNGFDWAGIIGA FKGAKIN\EIRQMSGAQIKIANP VE\GSTDRQVTITGSAASISLAQ YLINVRLSSETG\GMGNN
5976	36344	A	6022	1	690	
5977	36345	A	6023	1	399	
5978	36346	A	6024	3	397	
5979	36347	A	6025	3	249	
5980	36348	A	6026	177	477	
5981	36349	A	6027	49	451	
5982	36350	A	6028	1	1305	
5983	36351	A	6029	1	568	
5984	36352	A	6030	207	1053	PLTFGPARWRETPPSLYKEFSG LFGSFFLSSAWGAHNLRALFLL LPSSRIQPTPWVFGDLKSPAGL QVLNDYLADKSYIEGYVPSQA\ DVA\VEA\SSPPPADLCHALR WYNHIKSYEK\EKASLPGVKKA LGKYGPADVEDTTGSGATDSK DDDDIDLFGSDDEE\IESEKPKRL REERLAQYESKKAKKPG\LV KSSILLLVKP\WD\DETDMAKLE ECVRSIQADGLVWGSSKL\VPV GYGIKKLQIQCVVEDDKVGTD MLEEQITAFEDYVQSMDDAAAF
5985	36353	A	6031	1	211	
5986	36354	A	6032	27	241	EVFGSWWQVPHEWLGSVLVV MSEFLFH*LM*ELVLKRV*CLS HLSLAPFLAM*YACSSSSPSTMI VSFFFF
5987	36355	A	6033	1	588	

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5988	36356	A	6034	279	1333	LIFCGCWL FASLTVMEAAHFFE GTEKLLEVWFSRQQPDANQGS GDLRTIPRSEWDILLKDVQCSII SVTKTDKQEAYVLSESSMFVSK RRFILKTCGTTLLKALVPLLKL ARDYSGFDSIQSFFYSRKNFMK PSHQGYPHRN FQEEIEFLNAIFP NGAGYCMGRMNSDCWYLYTL DFPEER\VISQPDQTLEILMSELD PAVMDQF*HEDG\VTAKDVTRE SGIRDLIPGSVIDATMFNPGGYS \MNGMKSDGTYWT\HITPEPEF SYVSFETNLSQTSYDDLIRKVV EVFKPGKFVTTLFVNQSSKCR RLGLPQK\IEGFKRLDCQEGWF KDSNFF\TSFAKKQQQQQS
5989	36357	A	6035	1	687	
5990	36358	A	6036	1	894	
5991	36359	B	6037	1	1458	
5992	36360	A	6038	1	1062	
5993	36361	A	6039	1	1218	
5994	36362	A	6040	277	3508	RSGRIAWAQEMDAAGRGCHLL PLPAARGPARAPAAAAAAS PPGPCSGAACAPSAAAGAGAM NPSSSAGEEKGATGGSSSSGSG AGSCCLGAEGGADPRGAGSAA AAGAAALDEPAAAGQKEKDEA LEEKLRNLTFRKQVSYRKAISR AGLQHLAPAHPLSLPVANGPA KEPRATLDWSENAVNGEHLWL ETNVSG\DLCYLGEENCQVRFA KSALRRKCAVCKIVV/HTTACIE ELEKINFRCKPTFREG\GS
5995	36363	A	6041	45	155	
5996	36364	A	6042	1	979	
5997	36365	A	6043	3	1042	
5998	36366	A	6044	2	401	
5999	36367	A	6045	1	5772	
6000	36368	A	6046	16	5678	VTSGRLLFYFRSMGPGCDLLLR TAATITAAAIMSDTDSDEDSAG GGPFLAGFLFGNINGAGQLEG ESVLDDECKKHLAAGLGLG SLITELTANEELTGTGALVND EGWVRSTEDAVDSDINEVAE DESRRYQQTMGSLQPLCHSDY DEDDYDADCEDIDCKLMPPPPP PPGPMKKDKDQDSITGEKVDFS SSSDSESEMGPQEATQAESD KLTPLAGIMQHDA TKLLPSVT ELFPEFRPGKVLRLR
6001	36369	A	6047	1	354	

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6002	36370	A	6048	1	666	
6003	36371	A	6049	129	456	TYPAVGESSRRPERSRGVPGPD AAAESHFRPGRISNPLHRAGEQ GHARAEGSGVFRPHRGRGLRL LFVQAPDQVDAPVHG*VAPPAP GARDAQTCRSHECPRTPLDEV
6004	36372	A	6050	1	1095	
6005	36373	A	6051	171	619	
6006	36374	A	6052	1	621	
6007	36375	B	6053	1	181	
6008	36376	A	6054	1	905	
6009	36377	A	6055	1	855	
6010	36378	A	6056	2	244	
6011	36379	A	6057	3	829	LTDCLKDVDLIPFNRMLLEVT FGKLYAWTVQNILNVLMDSA KFKELGIPVPLQTITSENPLGP SLGSIPQARFLLMMLSMMLTLQH SANNLDLLNSGTLALTQTALR LIVLPDVELLI*DHLL*MQTSIV* LPVLALLLAQHRSFGPSCDNVE EDMNASAQGASATVLEATRKE TAPVHLPVSGPELAATMKIGTR VMRGVDWKWGD/QEAEQTER NIHPTTMMFTSTINLLQTLCLPA RVHAEIMQSEATKTLGGLLQIL VESGTTDKTRME
6012	36380	A	6058	133	5421	IFVFGCPGSPRLQMVENRYTES FFTGQNCRNNEKVTLVRIADLE NHNNDGGFWTVIDGKVYDIKD FQTQSLTENSILAQFAGEDPVV ALEAALQFEDTRESMHAFCVG QYLEPDQEGVTIPDLGSLSSPLI DTERNLGLLLGLHASYLAMSTP LSPVEIECAKWVQSSIFSGGLQT SQIHRYNEEKDEDHCSSPGGT PASKSRLCSHRRALGDHSQAFL QAIADNNIQDHNVKDFLCQIER YCRQCHLTPIMF

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6013	36381	A	6059	1	2607	MMGHSSAIPLTATPGELKGQSP TKMPDPELGCQGAKSQGCSR ARHQAARSMPLQDQHLALAIL LELA VQRGTLSQMLSAILLLLQ LWDSRAQETDNERSAAGTSTL LLSLLQTFQSIICSKDTPPSEGN MHLLSGPLSPSESFLRESFFTQ NCRNNEEVTICKADLENHNK DGGFWIVIDEKVYDIKDFQTQS LTGNSILAQFAGENPVVALEAA FEFEVTRESMHAFVCVGYLEVR LYALSDAEDGRGVTL*WLQSSIF SG/GLQTSQIHYSYNEEKDEDH CS/SPVGTPASKSR\CSHRWALG DHSQAFLQAIADNNIQDHNVKT HQQGRSYKEVCTPVIERLRF SNELRPAVGNDLSIIEFKLLSSL PRWRRIAQKIIERRRKKRIPKKP ESTADEEKIGNEESDLEEACILP HSPINVDKRPIAIKSPKTITSEN LGPSLGSIQARFLLMMLSLT LQHSANNLDLLNSGTLALTQT ALRLIGPSCDNVEEDMNASAQ GVSATVLEATRKETAPVHLPVS GPELAATMKIGTRVMRGVDW KWGDQDGPPPGLGRVIGELGE DGWIRVQWGTGSTNSYRMGK EGKYDLKLAELPAAAQPSAEDS DTEDDSASPNRLVYREQHRSW CMLGFVRSIALTPQVCGALSSP QWITLLMKVMKGHAPFPAASL QRQRWVAVSLPHALVKSGTVP
6014	36382	A	6060	1	7297	
6015	36383	A	6061	32	259	SLRVTPGGRNVSEKKDRKKTG R/PPELERKSHTERLYLEEGSAE PA*VGRRAPESVNDRGGAIQRA QRGQPAPPLPR
6016	36384	A	6062	3	437	
6017	36385	A	6063	1	425	MTELPTLWKPLKNSPMFRVIAR AFCVTFILVSTHQEMLTITSEN LGPSLGSIQARFLLMMLSLT LQHSANNLDLLNSGTLALTQT ALRLIGGTPVELPAELAAPAFR AAAA/VDKNPRRRGQKVAVAK SGGDRGKKS

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6018	36386	A	6064	2	14566	RRGGRALVRPETWEEAGEKM PSEFCLAAQARLDSKWLKTDI QLAFTRDGLCGLWNEMVKDG EIVYTGTSTQNGELPPRKDDS VEPSGTTKEDLNDKEKKDEEET PAPIYRAKSILDSWVWGKQPDV NELKECLSVLVKEQQALAVQS ATTLSALRLKQRLVILERYFIA LNRTVFQENVKVKWKSSGISLP PVDKSSRPAGKGVGLARVG SRAALSFAFAFLRRAWRSGEDA DLCSELLQESLDALRAL
6019	36387	B	6065	75	581	
6020	36388	A	6066	517	5495	ESFFTGQNCNRNEKVTFVRIAD LENHNNDGGFWTVIDGKVYDI KDFQTQSLTENSILAQFAGEDP VVALEAALQFEDTRESMHAF VGQYLEPDQEGVTIPDLGSLSSP LIDTERNLGLLLGLHASYLAMS TPLSPVEIECAKWLQSSIFSGGL QTSQIHYSYEEKDEDHCSSPG GTPASKSRLCSHRRALGDHSQA FLQAIADNNIQDHNVKDFLCQI ERYCRQCHLTTPIMFPPEHPVEE VGRLLLCCLLKH
6021	36389	A	6067	1	1851	
6022	36390	A	6068	53	423	YHLTLIIHGTVSATRPGHCSP GKLPSWVPISLQCTPSSPECRSV *RQL*HGHMHELLYIITKADSVI TASCLISRSEWWDGGTVSLV QRFVDYGSSQCQRPHRTGCASS SAPQRASSVAPG
6023	36391	A	6069	1	49	EWSGTRTWWRPWSRT*CRT
6024	36392	A	6070	1	726	
6025	36393	A	6071	368	485	
6026	36394	A	6073	1	414	
6027	36395	A	6074	3	535	RRREFPAKERESASMSSPEE*P/ DMAKGAPPSQPPNSVPAD/CS RSVRLSSSNFEESLRPTEDDEGQ EGQDSMSRAKANWLRANFKV RMQLQEARGEKESKSLWFKG GPGGGLIIIDSMPDIRKRKPIPLV SDLAMSLVQSRKAAITSALASS TLNNEELKNHVYKKTQALIIYP ISC
6028	36396	A	6075	1	222	
6029	36397	A	6076	2	284	NGIPDFSNTTLLRGLQMPGARG PCCGSQRHINLLMGTGVFLVK MKA/NEFFFLDSETRLCIAPEG WREQPKTSMNTFTLFLRIKFF VSHYGLL

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6030	36398	A	6077	91	749	
6031	36399	C	6078	1	380	
6032	36400	A	6079	1	877	MPRPDLAPALLVAVLVLLYLL VSAAAPAPSSDSTPENVCVET TTNFIWELSSPHNTSAVLLVVF HKGPSPKFEVKLKKNANGLGFS FVQMEKESCSHLKSDLVRIKRL FPGHPAEENGAIAGDIILAVN GSPRKASSSRCRGSWAMQLSV QAGPSFASYYPAAVEVLHLLRG APQEVTLLLCRPPPGALPELEQE WQGQKYKCAWAIVNEAEVEE VVEVAGTVEFFGDQ\GA*CHHP ACSGKPLGWHGGLSRKCPRLFF RGATRVGTGAQGLKEVKQQSFR SNMMWLGLRL
6033	36401	A	6080	1	1683	
6034	36402	B	6081	66	1214	
6035	36403	A	6082	1	5694	
6036	36404	A	6083	3	483	SSLTSSMEDPAAPGTGGPPANG NGNIGGGKKGQAAPKGREAFR SQRRESEGSVDCPTLEFEYGDA DGHAAELSELYSYTENLEFTNN RRCFEEDFKTQVQGKEWLELE EDAQKAYIMGLLDRLVVSRE RRLKAARAVLYLAQGTFGCED SEVDVLHWSRY
6037	36405	A	6084	1	2646	
6038	36406	A	6085	115	1289	FSPLEPRLCSLGGWGALQAGEP CQPSRAGCGREGATMGCTLSA EERAALERSKAIEKNLKEDGIS AAKDVKLLLLGAGESGKSTIVK QMKIIH\EDGFGEDVKQYKPV V\YSNTIQSLAAIVRAMDTLGIE YGDKERKADAKMVCDVVSRM EDTEPFSAELLSAMMRLWGDS GIQECFNRSREYQLNDSAKYYL DSLDRIGAADYQPTQDILRTR VKTTGIVETHFTFKNLHFRLFD VGGQRSEKWKWICFEDVTAII FCVALSGYDQVLHEDETTNRM HESLMLFDSICNNKFFIDTSIILF LNKKDLFGEIKKSPLTICFPEY TGPNTYEDAAAYIQAQFESKNR SPNKEIYCHMTCATDTNNIQVV FDAVTDIIANNLRGCGLY
6039	36407	A	6086	1	1053	

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6040	36408	A	6087	2	377	IYDGFDFGFAKGQIKEIGWTDVG GWTGQGGGILGTRVLPKG/Y MEEIATQMRTHSINALLIIGGFE AYLGLELSVFVTLKLFYQHFM HVLLTLIPNRRVPICPTSPSACC LWSVSHAFRCAYEQN
6041	36409	A	6088	1	591	
6042	36410	A	6089	1	2391	PGRAAPLGLLAMDAADD SRAPK GSLRKFLHLSGAGKAIGVLT GGDAQGMNAAVRAVVRMGIY VGAKVYFIYEGYQGMVDGGSN IAEADWESVSSILQVGGTIIGSA RCQAFRTREGRLKAACNLLQR GITNLCVIGGDGSLTGANLFRK EWSGLLEELARNQIDKEAVQ KYAYLNVVGMVGSIDNDFCGT DMTIGTDSALHRIIEVVDAIMTT AQSHQRTFVLEVMGRHCGYLA LVSALACGADWVFLPESPPEG WEEQMCVKLSENRRKKRLNII IVAEGAIDTQNKPIITSEKIKELV VTQLGYDTRVTILGHVQRGGTP SAFDRILASRMGVEAVIALLEA TPDTPACVVSLNGNHAVRLPL MECVQMTQDVQKAMDERRFQ DAVRLRGRSFAGNLNTYKRLAI KLPDDQIPKTNCNVAVINVGAP AAGMNAAVRSVVRVGIADGH RMLAIYDGFDFGFAKGQIKEIGW TDVGGWTGQGGGILGTRVLP GKYLEEATQMRTHSINALLIIG GF EAYLGLELSAAREKH EEF VPMVMVPATVSNNVPGSDFSIG ADTALNTITDTCDRJKQSASGT KRRVFIIETMGGYCGYLANMG GLAAGADAAYIFEFPDIRDLQ SNVEHLTEKMKTIIQRGLVLRN ESCSENYTTDFIYQLYSEEGKG VFDCRKNVLGHMQGGGAPSPF
6043	36411	A	6090	1	459	

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6044	36412	A	6091	1930	5781	RAKSPANIIMTGSNSHITILTLN VNLNSPIKRHRLASWIKSQDP SVCCIQETHLMCRDTHRLKIKG WRKIYQANGKQKKAGVAILVS DKTDFKPTKIKRDKEGHYMMV KGSIQQEELTILNMYAPNTGAP RFIKQVLSDLQRDLDSHTLIMG DFNTPLSTLDRSTRQKVNKDTQ ELNSALHQADLIDIYRTLHPKST EYTFFSAPHHSYSKIDHILGSEA LLSKCKRTEIITNYLSDHSAIKL ELRIKNLTQSR
6045	36413	A	6092	1	3654	
6046	36414	A	6093	1	5127	
6047	36415	A	6094	1	3663	
6048	36416	A	6095	1	3210	MVKGSIQQEELTILNIYAPNTG ALRFIKQVLRDLQRDLDSHTIIM GDFHTPLSTLDRSTRQKVNKDI QELNSALHQEDLIDIYRTLHPKS TEYTFFSAPHHTYSKIDHIVGSK ALLSKCKRTEIITNCLSDHSAIK LELRIKNLTQNRSTTWKLNLL LNDYWVHNEMKAEIKMFFETN ENKDDTYQNLWDTFKAVCRGK FIALNAHKRKQERSKIDTLTSQ KELEKQEQTTHSKASRRQEITKIR AELKEIETQ
6049	36417	A	6096	1	5073	
6050	36418	A	6097	1	3489	MGDFNTPLSTLDRSTRQKVNK DTQELNSALHQADLTDIYRTLH PKSTEYTFFSAPHHTYSKIDHIV GSKALLSKWKRTEIITNYLSDH SAIKLELRIKNPTQSRSTTWKLN NLLNLDYWVHNKMKAEIKMFF ETNENKDDTYQNLWDAFKAVC RGKFIPLNAHKRKQERSKIDTL TSQLELEKQEQTTHSKASRRQE ITKIRAELEIETQKTLQINESR SWFFERINKTDRPLARLIKKR EKNQIDTIKNDK
6051	36419	A	6098	1	3235	

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6052	36420	A	6099	1	3070	MATLIPLL FHKHPH LTQRYQFN VRGGCPTSTSAIATLDPRTAVFP LMSVFQTSAPWPFWGFTHQTP VPQPLKV KIHSSADTAADIQAN RVWSGPPANSKRPAEEGKLT NRKDIHTKNPSVRHHHQRPKV DKTTKTGKKQRRKTGNSKKQS ACPPPKERSSTATEQSWTEND FDKLREGFRRSNYSKLQDEIQT KGKEVENLEKSLDECITRITNTE KGLKKLENYVKNEETSGANAI NWKKGINKIDRPLARL
6053	36421	A	6100	1	3297	
6054	36422	A	6101	1	2563	MKAEIKMFFETNENKDTTNQN LWDAFKAEEVESLNRPTGAEI GAIINSLPTKKSPGPDGFTAEFY QRYKEELVPFLLKLFQSIEKEEI LPNSFYEASIIIPKPGRDTTKKE NFRPISLMNIDAKILNKILANRI QQHIKKLIHHDQVGFFPGMQG WFNIRKSINVIQHINRAKDKNH MIISIDA EKA FDKIQQPFMLKTL NKL GIDGTYFKIIRAIYDKPTAN IILNGQKLEAFPLKTGTRQGCPL SPLLFNILLEVLARAIRQEKEIK GIQLGKEEVKLSLFADDMIVYL ENPIVSAQNLLKLISNFSKVSGY KINVQKSQAFLYTSNRQTESQI MSELPFTIASKRIKYLGIQLTRD VKDLFKENYKPLLKEIKEDTNK WKNIPCSWVGRINIVKMAILPK VIYRFNAIPIKLPMFFTELEKTT LKFIWNQKRAHITKSILSQKNK AGGITLPDFKLYYKATVTKTA WYCYQNRDIDQWNRTEPSEITP HTYNYLIFDKPEKNKQWGKDS LFNKWCWENWLAIWRKLKLD PFLTPYTKINSRWIKDLNVRPKT IKTLEENLGITIQDIGMGKDFMS RTPKAMATKAKIDKWDLIKLK SFCTAKETTIRVNRQPTTWEKIF ATYSSDKGLISRIYNELKQIYKK KTNNPIKKWEKDMNRHFSKED IYAAKKHMKKCSSSLAIREMQI KTTMRYHLTPVRMAIIKSGNN
6055	36423	A	6102	1	3417	

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6056	36424	A	6103	1	3579	MPGHNLKWKLNRGTVLIETGI QLSTSTILGSASEPPSAIPKAQV SSTEKLRLNCIDDLKPPALASEL SRRAKALQIAGFPPMKVPRDTI SKVCLDKTVGKLCHSGEESRK CTLICNNKHYP IQDNLQGYKTQ NKFLNKEILELSALRRNAERRE RDLMAKYSSLEAKLCQIESKYL ILLQEMKTPVCSAQGPTRVI AQLLEDALQVESQEQPEQAFV KPHLVSEYDIYGFRTPEDDEE EKLVAKVRALDLK
6057	36425	A	6104	1	4371	
6058	36426	A	6105	1	1825	MVKGSIQQEELTILNTYAAHTG APRLIKQVLSDLQRDLDSHTIIM GDFNTPLSTLDRSTRQKVNKDT QELKSALHQADLTDIYRTLHHK STEYTFFSAPHHIYSKIDHILGSK ALLSKCKRTEIITNYLSDHSAIK LELWIKNLTONHSTTWELNNLL LNDYVVHNEMKAEIKMFFETN ENKDTTYHNLWDTFKAVCRGK FIPLNAHKRKQERSKIDTLTSQ KELEKQEQTHSKASRRQEITKIR AELKEIETQKTLQKINESRSWFF ERINKIDRLLARLIKKKREKNQI DAIKNDKGDITTDPTIEIQTIRE YCKHLYANKLENLEEMDKFLD TYTLPRLNQEEVESLNRPIGTAE IVAIINSLPTKKSPGPDGFTAKF YQRYKEELVPFLLKLFQSIEKE GILPNSFYEASIIIPKPGRDTTK KENFRPISLMNIDAKILNKKLA KRIQQHIKKLIHHDQVGFI QGWFNIRKSINVIQHINRAKDK NHMIISIDAEKAFDKIQPFMLK TLNKLGIKYLGIHLTRDVKDLF KENYKPLLKEIKEDRNKWNIP CSWVGRINIVKMAILPKNILITL QLLLVLPELSTLIPLWLPALAGO
6059	36427	A	6106	1	4449	

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6060	36428	A	6107	824	3693	AWKGTDDRSTRQKVNKDTQEL NSALHQADLIDIYRTLHPKSTE YT/FFSAPHHTYSKIDHIVGSKA LLSKCKRTEIITNYLSDHSAIKL ELRIKNFTQSRSTTWKLNLL NDYWVHNEMNAEIKMFFETNE NKDDTYQNLWDAFKAVCRGK FIALNAHKRQKERSKIDTLTSQL KELEKQEQTTHSKASRRQEITKIR AELKEIETQKTLQKINESRSWFF ERITKSDRPLARLIKKKREKNQI DTIKNDKGDIT
6061	36429	A	6108	1	3297	
6062	36430	B	6109	112	3300	
6063	36431	A	6110	3	3316	
6064	36432	A	6111	1	3457	
6065	36433	A	6112	1	3170	MVKGSIQQEELTILNIYAPNTG APRFIKQVLSDLQRDLDSHTLI MGDFNTPLSTLDRSTRQKVNK DTQELNSALHQADLIDIYRTLH PKSTEYTTFSAPHHTYSKIDHIL GSKALLSKCKRIEITNYLSDHS AIKLELRIKNLTQSRSTTWKLN NLLNDYWVHNEMKTEIKMFF ETNENKDDTYQNLWDAFKAVC RGKFIALNAYKRKEERSKIDTL TSQLKELEKQEQRHSKPSRRQE ITKMRAELKEIETQ
6066	36434	B	6113	1	4753	
6067	36435	B	6114	1	3384	
6068	36436	A	6115	1	3345	
6069	36437	A	6116	1	3780	
6070	36438	A	6117	1	3720	
6071	36439	A	6118	1	3894	
6072	36440	A	6119	1	3335	MVKGSIQQEELTILNIYAPNTG APRFIKQVLSDLQRDLDSHTLI MGDFNTPLSTLDRSTRQKVNK DTQELNSALHQADLIDIYRTLH PKSTEYTTFSAPHHTYSKIDHIV GSKALLSKCKRTEIITNYLSDHS AIKLELRIKNLTQSRSTTWKLN NLLNDYWVHNEMKAEIKMFF ETNENKDDTYQNLWDAFKAVC RGKFIALNVYKRKQERSKIDTL TSQLKELEKQEQTTHSKASRRQE ITKIRAEELKEIETQ
6073	36441	A	6120	1	3780	
6074	36442	A	6121	1	3852	
6075	36443	A	6122	1	3345	
6076	36444	B	6123	1	6136	
6077	36445	B	6124	1	3924	

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6078	36446	B	6125	295	4185	
6079	36447	A	6126	1	405	
6080	36448	A	6127	1	1059	
6081	36449	A	6128	2	518	EKATCDENDSVSNIAIEKEGQ QSVHVSPQKQSAWKVIFKKKV SLLNIATRITGGGKSGTVSSQKQ PPSKATSDKTDSALNIAIEKDG LQCGTVSSQKQPALKATTDEED SVSNIAIEKDGKSGTVSSQKQ PALKATTDEKDSVSNIAIEKD GEKSVTVSSQKQPASK
6082	36450	A	6129	1	843	
6083	36451	A	6130	1	432	
6084	36452	A	6131	2	835	CGSAQAAAAAAAAEEATEKIPAL RP/ASAVGAAGALAVLRDPRA WREAGSKS/PETPFS*CQGA/HG GGQFCPSGTAFPGMKVMMR KRKKKGQCLPGICRSLKRRKSP RSPGM/IGYSTLSIPPEMLASYQ SYSSTFHSLEEQQVCMA/G*HR QMPGADKPVRAQVRVLGVW AGFTMRHQSRLY*ECSICGVIFR HRCVAHLLGRAIGAGLFVITPA GERGMCKKAIKLGNAVFVPVT TL*NDGQCQACMHAG/TTLED GKNYISSPSSSSSSSPSPRVPS
6085	36453	C	6133	278	446	
6086	36454	A	6134	1	1152	
6087	36455	A	6135	1	639	
6088	36456	A	6136	12	1436	
6089	36457	A	6137	367	1056	
6090	36458	A	6139	1	4263	
6091	36459	A	6140	1	1311	
6092	36460	A	6141	1093	1358	MQKKPLTKFNNPSC*KLSIN*V LMGRISK*VTTTATTTTTTTTTT TTTTTTTTTTATTTTTTTTTTTT TTTTTTMGPTLPLIPIGLGS
6093	36461	A	6142	1	699	
6094	36462	A	6143	1	489	

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6095	36463	A	6144	5	916	ALGGTPMLGKLAMLLWVQQA LLALLLPTLLAQGEARRSRNTT RPALLRLSDYLLTNYRKGVPRV RDWRKPTTVSIDVIVYAILNVD EKNQVLTTYIWYRQYWTDEFL QWNPEDFDNITKLSIPTDSIWVP DILINEFVDVGKSPNIPYVYIRH QGEVQNYKPLQVVTACSLDIY NFPFDVQNCSLTFTSWLHT/SPG HQHLFVALARKGEIRQECLHEP GRVGVAGGAALLSGVQHGKQ* LLCRNEVLCGHPPAAPLLCGQP ATAQHLPHGHHGRGLLPAPQQ WREGLFQNYTPPGLLGLPDHFR
6096	36464	A	6145	5	756	
6097	36465	A	6146	1	471	
6098	36466	A	6147	184	1097	ALGGTPMLGKLAMLLWVQQA LLALLLPTLLAQGEARRSRNTT RPALLRLSDYLLTNYRKGVPRV RDWRKPTTVSIDVIVYAILNVD EKNQVLTTYIWYRQYWTDEFL QWNPEDFDNITKLSIPTDSIWVP DILINEFVDVGKSPNIPYVYIRH QGEVQNYKPLQVVTACSLDIY NFPFDVQNCSLTFTSWLHT/SPG HQHLFVALARKGEIRQECLHEP GRVGVAGGAALLSGVQHGKQ* LLCRNEVLCGHPPAAPLLCGQP ATAQHLPHGHHGRGLLPAPQQ WREGLFQDYTPPGLLGLPDHFR
6099	36467	A	6148	3	672	
6100	36468	A	6149	3	398	LRKIKIDLGKFSNPDGYIDVLQ GLRQSFDLTWRDIMLLLDQSLT PNEKSAAKTAAREFGDLWV/S FQN*SCKTTNRSSNGAPDAVHD *D/PTADPWTGPLAHALMLMTL KAPLTRKSQLHDPYAPIQQA V
6101	36469	A	6150	1	420	

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6102	36470	A	6151	1	878	TLLPPRPGVGS DYPNIPGCPMW GNKDPGEGTLER GKVEDASQR TSRTLKETS GKA EHRKKQDGK CSPQGKNAL KMYSGEFD PVRV CVPFSLSDL KQLKIDLGRFSDNP DGYIDVLQGLGQSFDLTWRDI MLLLDQTLTPNERNATITAARE FGDLWCLSQVND RMTTEERER FPTGQQA VPSADPH* DTESEHG DWCCRHL L TCVLEGLRKTRKK AVNFSVMSTVTQGKEENPTAFL ERLREALRKHTSLSPDSIEGQLI LKIKFITRSAADIRKQTSKVHLR PGAKLKTPY
6103	36471	A	6152	1	417	
6104	36472	A	6153	1	415	
6105	36473	A	6154	1	234	
6106	36474	A	6155	1	335	TCPIVPG/QEMIIEISKGRSGLGL SIV*GKDTPLNAI VIHEVYEEGA AAVDGRLWAGDQILEVNGVDL RNSSHEEAIT ALMQTPQKVRLV VYRDEAHYRDEENLEIFPVDLQ
6107	36475	A	6156	109	4687	
6108	36476	A	6157	109	4991	
6109	36477	A	6158	3	862	
6110	36478	A	6159	1	1857	
6111	36479	A	6160	3	100	
6112	36480	A	6161	1	537	
6113	36481	A	6162	125	1184	
6114	36482	A	6163	875	1506	LSIYLV TQKAA/SSEWGPEQEK ALQEVQA AVQAALILEPYDPA GPVVLEVSLADRDAVWSLWQ APIGESQQRPLGFWSKALPSSA/ DHKACHAQQHSIHKWKWYIHD RARAGPEGTNSSARYAATM*K WTASALQPLSRKSLKDSSEGK SSQWAE LRAVHLAVHVAWKE KWPDVRLDTDSWAV/ANGLAR WSGTWKEHDRKIGDKEVWGR GTRI
6115	36483	A	6164	1	1566	
6116	36484	A	6165	1	1098	
6117	36485	A	6166	1	538	
6118	36486	A	6167	410	625	LTLVPFSFSVVL TPLPKGNTIRY *TGIL*GWNLSWKGLGFSVTA QPSSGTPRTALGSRTTKPLLVS L LQV

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6119	36487	A	6168	821	1428	QVTDVQDFPLKCKIQWRRTVR GDLQ/PFTRVTVHWGKGNDQT FQGLLDTGSELTLPKDPKRHC GPPVKIGAYGGQIINGVLAQVQ LTVDAVGPWTHPVV/I/SPVPECI IGIDILSSWQ/NSHIGSLTGRVRA TMVGKAKWKPLELPLPRKIVN QKQYHIPGGIAEIGATIKDLKDT G\VIPTSPFNSPI*PMQKTDGSW RMTVDYL
6120	36488	A	6169	203	850	DVEHVGKMRRRWRRRVVAD GNVVKPMSCAGDLQ/PFTRVTV HWGKGNDQTFQDLLDTGSELT LIPGDPKRHC GPPVKIGAYGGQI INGVLAQVQLTVDVGPWTHP VV/I/SPVPECIIGIDILSSWQ/NSH IGSLTVHLSSDPKGCSEWGPE QEKALQEVQAAVQAALILEPY DPAGPVVLEVSLADRAVWSL WQAPIGESQQRPLGFWKALPS
6121	36489	A	6170	1	864	
6122	36490	A	6171	1	205	VPDFPAKPIQGPHFNSRYL/REA VHGEAVHAPFIAGQPLT**ELM SIFPQFQFFLYRRLD SHSGQSWQ I
6123	36491	A	6172	1	3039	
6124	36492	A	6173	1	1364	MIISIDAEKAFDKIQPFMLKTL SKLEETASPSPVVATYTPQPML PSAFPPLSEEINPVLPETTVMAS PEAVTRQDNVDSQKPPPTPMF ASRPITRLKPRRAPSEEGIQRLK KIGMVEWISHFRPTPLSMGPE HILLTNTLLNRYVKAAPASLKS PLTALLFMSDLTVGTTFSQLQN LNTMGIFGSSCDRSQVAALNHQ RQVPELIIGIDILSSWQNP HIGSL NGRGYINSLALCHNLIRRDLDLDR FLLPQDITLVHYIDHIMRLDSVK DKWLHLAPPTTKKEAQCLVGL/ FGFWRQHISLWRQPLACYWAL VETEHLTMGHQVTMQPELPI MWLLSDPSSYKPAPMASWGP YGQLTEEEKTRAFTDGSARY TETTRKWTAVAIQPLSRTSLKD SNEGKSSHQQA KNGITVLAGVI DPDYQDEISL/LTPQWRCHPGSS VWRASSLGISHPP
6125	36493	A	6174	114	1996	

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6126	36494	A	6175	1	475	MGRNQNRKAENSKNWNASSPP KEHNSSPAREQNWREDEFNELT EVGFRRSVITNFSDLKEHVLTH CKEAKILEKRLDKWLTKITSVE KS/CK*PDG/D*KPQYENFMKHT QASIADLIKRRKKRYQ*LKIKLM K*SKKTR*EKKKYKLPSENTTN TSMQIY
6127	36495	A	6176	179	393	NKRGYKQMEEHSMMDKKNQ YYENGHTAQGN*AGEGNKGYS IRKTGSQIVPLCR*HDCISRKPD CLSPKSP
6128	36496	A	6177	1	710	MARELRDECTSFSSQFHQLEER VSVIEDQMNMKQEEKFREKGI KRSEQLQEIWDYMERPNLCLI GVPESDGENGIKLEDTLQDIIQK DFPNLGRQANIQEIQRMPQR YSSRRATPRHIIVRFTKEIQTIR EYYKHL YANKLENLEEMDKFL DTYTL PRLNQEEVESLNR PITGS EIEAIINSLPTKKSPR PDGFTA EF YQRYKEELVPFLKL FQSIEKE GILPNSFYEASII LIPKLGRD TTK KENFRPISLMNIDAKILNKILAN QMQQNIKNLIRHDQAGFIPGMQ CWFNIRKSINVIQHINRTKDKN HMIISIDAEKAFYKIQQP FILKTL NKLENKIPRNPTYKGCEGPLFK ENYKMLMLKEIKEDTSKWKNIP WSWIGRINIVKMAILPKVIYRLS APIKLPMIFFTELEKTTLKFIWN QKRACIAKSILSQKNKAGGIML PDFKLYYKATVTKAAWYWYQ NRDIDQWNRTEPSETIPHIYSHL IFDKPDKNKKWGKDFLFNKWC WENWLAICRKLKLDPFLTPYTK INSRWIKDLNVRPKTIKLEENL GNTIQDIGMGKDFMCKTPKAM VTKAKIDKWDLIKLSFCTAKE TTVRVNRQPTEWEKIFAIYSSD KRLISRIYKELKL*PCSIV*SQVA *CLQLCSFGLGLTWQCRLFFGSI
6129	36497	A	6178	464	724	IGEVLLDNILQRVFQLGSILPITF RYTNQT*IWSWTLFWLVSY
6130	36498	A	6179	1	2022	
6131	36499	A	6180	1	882	
6132	36500	C	6181	1	1935	
6133	36501	A	6182	1	672	
6134	36502	B	6183	140	2195	
6135	36503	A	6184	26	354	

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6136	36504	A	6185	86	747	SLEDAMSLKDDDSGDHDQNEE NSTQKDGEKEKTERDKNQSSS KRKAVVPGPAEHPLQYNYTFW YSRRTPGRPTSSQSYEQNIQIG TFASIVEQFWRFYSHMVRPGDL TGHSDFHFLKEGIKPMWE\DDA NKN\GKWIIRLRKGFGSRC\W ENLILAMLGEQFMVGEEICGG CGVCPAFQEDIIS\WNKTASDQ ATTARIRDTLARRVLNLPANTI MEYKN
6137	36505	A	6186	23	127	
6138	36506	A	6187	2	419	
6139	36507	A	6188	1	714	
6140	36508	A	6189	19	373	AVFFFFFFFFFFFFFFFFFFFFFFF FFFFFFFFFFFFSSSSSSFFFFSFFL FFFFKLKELRLVI*PLNPEN*ESC PLFSPVNLDMPTFKDKRWKV NWARSTSRQQLLESARTKSWA EREGGTRWRAW
6141	36509	A	6190	227	420	KNFLPNCsAKELFFFFFFFFFLL LLLLLLLYFKF/MI*WFKHLAF PLLAFILSPTAL*RGVFHH
6142	36510	A	6191	400	582	
6143	36511	A	6192	1202	1678	
6144	36512	A	6193	2	109	FTFWHDFAAAGTGCSFPCLVLP SWW*QNLSAACL
6145	36513	A	6194	110	377	QWISRQKPYKPEKRGDQYSTFL *EC*ILVPPFLFWLVGFLPRDPLL V*WAYGCP*HFFLHFNLGESNN YVSWGCS
6146	36514	A	6195	1	381	
6147	36515	A	6196	1	759	
6148	36516	A	6197	1	609	
6149	36517	A	6198	2	1178	
6150	36518	B	6199	159	290	
6151	36519	A	6200	716	1001	SMPASTHLILVGSCSWKMVIVL PLVTHFLFTALTVPWNLPWVEL YWNM*TM*LRSMKESLMATIF TLPELKA\VLHEKLQ*LQSTEDL *HGLLGG
6152	36520	A	6201	5772	5971	TANIIMTGSNSHITILTNVNRL NARIKRHRENCIKSQDPSVCCI *ETHLMCRDITYRLKIKGWSN
6153	36521	A	6202	1	974	
6154	36522	A	6203	1	600	

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6155	36523	A	6204	51	424	MAPKQDPKPKFQEGERVLCFH GPLYEAKRVKVAIKD/ITREI/H SYITVVGIKIGMNGFRRAKYSN TWTPICRNSENFKKPKSKFVL*T EY*GEMPVD*FWTWNEQWRSC WLPCLYNDTSDLSAGV
6156	36524	A	6205	1	3827	MQKAIRLNDGHVAPLGLLARK DGTRKGYLSKRSSDNTKWQTK WFALLQNLLFYFESDSSSRPSG LYLLEGCVCDRAPSPKPALSAK EPLKQHYFTVNFSHENQKALE LRTEDAKDCDEWVAIAHASY RTLATEHEALMQKYLHLLQIVE TEKTVAKQLRQIEDGEIEIERL KAEITSLKDNRIQSTQTVAPN DESDIKKIKKVQSFLRGWLCR RKWKTIQDYIRSPHADSMRKR NQVVFSMLEAEA
6157	36525	A	6206	1	900	
6158	36526	C	6207	172	501	
6159	36527	A	6208	499	848	KIRVPAAVAGLSPPLGPWSLRS PSQPERCCPWRNSSWWTAPRTS IITAAGVSPARLSSISCTTRGS WVKTPPTRARMVIASSNLERP SALSRM*PTSQSMTRKRWWRL WPSTTL
6160	36528	A	6209	3	495	SCAQTFPKLDTFLEHIKSHQEEL SYRCHLCGKDFPSLYDLGVHQ YSHSLLPQHSPKKDNA/CLQVF PCERYLRRHLPHTHGSGGRFKCQ VCKKFFRREHYLKLHAHIHSGE KPYKCSVCESAFNRKDKLKRH MLIQYDEVRRQGLGMVPGTQKV LNKCFCHNVK
6161	36529	A	6210	667	2142	
6162	36530	A	6211	1	396	
6163	36531	A	6212	213	446	
6164	36532	A	6213	101	580	VAGVGS�PRSMEDDAPVIYGLE FQARALTPQTAETDAIRFLVG TQSLKYDNQIHIDFDDENNIIN KNVLLHQS/AGEIWHISASPADR GVLTTTCYNRTSDSKVLTCAAV WRMPKELESSESHPDDSSSTA QTLÆELLCHLDNTAHGNMACV VWEPMGDG
6165	36533	A	6214	1	933	

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6166	36534	A	6215	3	404	RLKEKKLVKEVIAVSCGPAQCQ ETIRTALAMGADRGIHVEVPPA EAERLGPLQVARV/AVVTADLR LNEPCYATLPNIMKAKKKKIEV IKPGDLGVDLTSKLSVISVEDPP QRTAGVKVETTEDLVAKLKEIG
6167	36535	A	6216	1	408	
6168	36536	A	6217	88	871	MADVRLVAVKRVIDYAVKIR VKPDRTGVVTDGVKHSMPFC EIAVEEAURLKEKKLVKEVIAV\ SCGPAQCQETI\RTALA\MGAI\ RGIHVE\PPAEAERF/GVPLQV ARVLGQLAKK\EKVDLVLLGK QAI\ACTDCNQ\TGQMTAGFLD WPQGTFFASQVTLEGDKLKVER EIDGGLETLLRLKLPVVTADLR LNEPRYA\TLPNIMKAKKKKIE VIKPGDLGVDLTSKLSVISVEDP PQRTAGVKVETTEDLVAKLKEI
6169	36537	A	6218	1	1023	
6170	36538	A	6219	110	842	
6171	36539	A	6220	1	122	
6172	36540	A	6222	1	1257	MNDATAVQEGSQMYSWQKLT PTGPFIMQPEGMGRFLFAINKMA EGPFPEHYEPIETPLGTNPLHPN VVSNPVVRLYEQDALRMGKKE QFPYVGTTYRLTEHFHTWTKH ALLNAIAQPEQFVEISETLAAAK GINNGDRVTVSSKRGFIRAVAV VTRRLKPLNVNGQQVETVGIPI HWGFEGVARKGYIANTLTPNV GDANSQTPEYKAFL/GQHREGV RN*LHHAAFSGA*LQCFQYAH NSRKNN
6173	36541	A	6223	737	941	WLRMMEHRILFPLWKRESKKA HYVQSSVLLCLGMLR*KYKGK KGKKERKKKDEKRKGNGKKRI KIHSI
6174	36542	A	6224	1	1072	
6175	36543	A	6225	1	585	
6176	36544	A	6226	1	930	
6177	36545	A	6227	28	392	AGEVPLQLPPAAVCSACLQRPA LWWNSSFFL*SCLHALFH*VDL QSLIAFLLLD*SSY*YLCMLHEV LVLCFSAPSGHLCSSLS*LF*LAI HLTFFQGS*LPCIGLEHASLAQR SLLLPTF
6178	36546	A	6228	1	271	SAIVTFVCFMKFSCCVFQLHQV FHVLA\FKLVLVSSSCNLFSLFLA SLHWVTTCFSSEEFVITHLLKP APVNSSNSFSVQFCSLAGKEL

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6179	36547	A	6229	1	1089	MGWRPRWLPYLYWGFQSDLC PHCKRKAQEEDSLAAQAASHP RLSANSKNNSWKGQYSYALFK AMRHMLCIGYGRQAPAAVSDV WLTMLSMIVGATCYAMFIGH/ ATALIQVLDCSRQYQEKVVLP REHPNIGSSQEGGTWHQTVGL QQTSDKFDANDPILKDQTQEW SGSATFTSDGKIRLFYTDYSGK HYGKQSLTTSAANTGTENGYQ GEESLFNKAYYGGGTNFFRKES QKLQQSATTRDAELANGALGH ELDNDSPKKRGATQRSSEENI TLKAYKRDVRSLLMLTRNEDV ADSLNSSKKRQNYQLPSIRSVT RCKKIGVCAKGICGQGTHYLS VSILNTADRDRRKLGFTRTSMY
6180	36548	B	6230	1	1140	
6181	36549	A	6231	3	204	GSDYELGLW*PWLTSSEATDLH GECYSS*SGASGVVRSSLWARG LAGFRSEAADLRGRESVAVTN
6182	36550	A	6232	1	1296	
6183	36551	B	6233	1	1686	
6184	36552	A	6234	1	627	
6185	36553	A	6235	570	736	SATFGRSSRSGCSG\FPAASRRG RLPLSPPPWPAVVRVYPCGMLD NKASAAHPPKKK
6186	36554	A	6236	1	103	
6187	36555	A	6237	699	887	GLQPPAPRETRPLY*TLAWNLIH FLFVSPLDSCDLVRSVLTCLSP GNSPSFDMHRYQLPCVH
6188	36556	A	6238	2	803	
6189	36557	A	6239	2	1277	YKETYLHLFHTFTGLSIAYFNF GNQLYHSLLCIVLQFLILRLMG RTITAVLTTFCFQMA YLLAGYY YTATGNYDIKWTMPHCVLTLK LIGLAVDYFDGGKDQNSLSSEQ QKYAIRGVPSLLEVAGFSYFYG AFLVGPQFSMNHYMKLVQGEL IDIPGKIPNSIIPALKRSLGLFY VGYTLLSPHITEDYLLTEDYDN HPFWFRMYMLIWGKFVLYKY VTCWLVTGVCILTGLGFNGFE EKGKAKWDACANMKVWLFET NPRFTGTIASFNINTNAWVARYI FKRLKFLGNKELSQGLSMLFLF LWHGLHSGYLVCFQMEFLIVIV ERQAARLIQESPTLSKLAATVL QPFYYLVQQTIIHWFMGYSMT AFCLFTWDKWLKVYKSIYFLG HIFFLSLLFILPYIHK\AMVPRKE

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6190	36558	A	6240	56	324	
6191	36559	A	6241	68	487	
6192	36560	A	6242	52	457	
6193	36561	A	6243	263	787	SLEV*KWPGVACRLQL*P/MVP APKS*ESKSAGSLNTPSAICRDA SGRGLARPWLRKSKCLACHLV DTRSKTAGGLAPVPSAHLISVR EREPLCAVLVSQLEFRVGVGL VGPTLGARREPCWPQAMGDLA PEPVAALRLISRRALPAFPWGR ARDLQPAMPEPPTHSMGSCAPE PPR
6194	36562	A	6244	3	236	
6195	36563	C	6245	1	1608	
6196	36564	B	6246	1	1083	
6197	36565	A	6247	823	1055	KQKDG TGAPWSRGRSSGRLG THRSPRRGWEAQAWRAAGPET CPAGRQLRPGEKSSAAPG*RSR RKDAYEMDTAKKK
6198	36566	B	6248	1	390	
6199	36567	A	6249	27	363	
6200	36568	B	6250	1132	1268	
6201	36569	A	6251	11	489	
6202	36570	A	6252	356	638	
6203	36571	A	6253	1	507	
6204	36572	A	6254	80	336	
6205	36573	B	6255	100	912	
6206	36574	B	6256	821	2992	
6207	36575	A	6257	2	602	
6208	36576	A	6258	1	519	
6209	36577	A	6259	3	228	STGVPVSQ\RTCLLEKASVLFNT GALYTQIGTRCDRQTQAGLESA IDAFQRAADMSPGLTRRSLGP TRWHQGTPH
6210	36578	A	6260	1	963	
6211	36579	A	6261	1	925	
6212	36580	A	6262	1	397	
6213	36581	A	6263	1	2625	
6214	36582	A	6264	11	241	SLQHLNPATFLPVSKSPVKHNC VEVLDSVYSSGPNHRDHP*TSV DWELYMDGSSFTNPCKVTLKK TTSPAPVTPGS
6215	36583	A	6265	1	1662	
6216	36584	B	6266	1	897	
6217	36585	A	6267	3	258	
6218	36586	A	6268	1	279	
6219	36587	A	6269	1	258	
6220	36588	A	6270	1	639	
6221	36589	B	6271	1	1935	
6222	36590	A	6272	698	1643	

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6223	36591	A	6273	91	386	IFDFLLLYVSGCNSIAEPQHFT TTVTRCSPTVAFVEFPSSPQLKN DVSEEDQK\KPIENEMSGKGG SWVLFTKGEVQEWRESGLNPT KFNMGPLIYS
6224	36592	A	6274	1	2538	
6225	36593	A	6275	1	471	
6226	36594	A	6276	152	520	CPLTLLPSRGAGLGTCSPPCLS LPPTPWAPVRPEPPRRAPPPAPR RPVPSTGKEQTTQGLRNASARR GTGRQLHLSPGVGSTG*SQGL
6227	36595	A	6277	831	1449	HPGQWLRRVCWVSSGAGPLAL CSISCPALAAFPRVGLGTCSPPC LSLPPTPWAPVRPEPPRRAPPPA PR/PPSPIDHPRAEYE/PHGAGL AGSSTCSPAESTG*SQLGS*VV RVRGFILEVSETKNPPIDTFGL PPGSSSAASTLVQVTRL*ISAI SLPHLLSRPCSNTARGPVPAPVPG AAVRAPAAGGRWCGGARGRG RRGGGH
6228	36596	C	6278	1	426	
6229	36597	A	6279	1	535	MKHSGAQLASPSGS\PLGPQVE LPASVPCACTSQPLGGRWDW APWSRGWCSSGRLGPHRSPWS GWE\LRHGGLQVPSPAPREGS* GPARNP/GTAPGRPAAPS\GGPP SPRPPRTAGPQALRAAPVPLA PLPPHLPAS*GSGLPWPA*KE APTVQCQAEGLLKRQSGSPGR GGAESE
6230	36598	B	6280	1	1743	
6231	36599	A	6281	1	428	GTR EEHLKRSGREIALPIEACV MLLLETGMKEEGLFRIGAGASK LKKLKAALDCS\LTWDEFYSD PHAVAG\ALKSYLRELPEPLMT FNLYEEWAQVASVQDQGQKT FKDLWRTCQKLPPQNFVNFY LIKFLAKLAQTS DV
6232	36600	A	6282	135	512	LPFRGAGLETCSPPCLSLPPPPW APVRPKPPR*APPPAPRRVPST TQGS LGPHCFYEL*HSP*RSAAS LLKPARP*AHREERTTP/GRSAL/ TSCNTHREGLQ/PSLRKKETPNT SEHQKEQTPDAPP

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6233	36601	A	6283	698	2233	IQAAMQAAPQFGPSTED*CCPIT SEAPWAIMDAKLRLKPPSHPL VSPHLNPQVWDTSSPSLATEHA SLTISLKPNNHPYPAQSQYSIPQH ALKGSKPVITRLLHGLLKPIN PYNPILPVQKLDKSYRLVQHL CLIQIVLPIHPMVPNPYTLLSSI PFTTHYSVLDLKHAFFTIPLYPS SQPLFAFTWTDPDTHQAQQITL AVLPQCFIDSPHYFSQAQISSSS VTYLGIIIMKTHIGLGAVEQGV VLVGEEARAAQEPMEWVGGSG MVGCRSRALPRGKAARREI ERSAVTIVPVLDFNPAFHIPDTT PDHHDICISLIHLTFTPFPHISFFP VPHLEHTWFDGSSSTRPNCHSP AKAGYAIVSSTSIIEATALPRST TSQQAQLIAYTDSKCAFHILHH HAVIWEERNFLTMQGASINAF LIKTLKDLLPKEAGVIHCKGH QKASDPITQDNAYADKVAKKQ LAFQLLSLTAVFLLLIRPLSPTSP LKLPLINLFPHKANDS
6234	36602	A	6284	1	1239	
6235	36603	A	6285	1	477	QRPPHGVFVLGVAGRVHGP ELASHKAGPQLGDVGVCAQGGG QVGPLVLQPVVEHIQQLPG/AG HCAHQ*QGSPTS*SSLPRPERSLQ CRRPQGATATIRSTWWGPRGP VCTAALVPLCWPGWPVQKDEL QAVRSHSALASAMQTCSLAGP GLGSSHARLTA
6236	36604	A	6286	1	1134	
6237	36605	A	6287	673	836	
6238	36606	A	6288	1	225	
6239	36607	A	6289	1	468	
6240	36608	A	6290	495	1637	ESQVLSNVSPHVKV*NMASWE GKDLTVPPQDTRKGSVLRRIK RGRNASCS*DKRKASVSCLSLG NGMSRYKTRLYAPSTEIGKNRL RAGGGTCGQQYCFVKH
6241	36609	A	6291	1	507	
6242	36610	A	6292	215	389	
6243	36611	A	6293	1	255	
6244	36612	B	6294	69	1055	

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6245	36613	A	6295	23	1596	IKPQRWGGETRAEMLKILKTREP FLLQRIASPRQQWNKAGQRRS WFFERL/NKIDRLRLARLIKKKRE KNQIDAIAKNDKGDITTDPTIEQT TIREYYKHL YANKLENLEEMD KFLDTYTLPRLNQEELESNRPI TGSEIEAIISSLRTKKSPGPDGFT AEFYQRYKEELVFLKLFQSIE KEGILPNSFYEAIIIPKPGRDT TKKENFRLISLMNIDVKILNKIL ANRIQQHIKKLVHHDQVGFIPG MPDWFNICKSINIIHHINRTNGK NHMIISIDA EKA FEKIQQCFMLK TLNKL GIDGMYLKIIRAIFDKPT ANVILNGQKLEAFPLKTGTTQG CPLSPLLFKIVLEV LARAIRQEK EIKRIQLGKEEAKLSLFADDMIV YLENPIVSAQNLLQLRSNFSKV LGYKINMQKSQAFLYTKNKQT ESQIMSELPFTIATKRIKYLGIQL TRDVKSLFKENYKPLLSKIKED TNKWKNIPSSWIGRISIAKMAIL PKVIYTFNAIPIKLPMFTFTELEK
6246	36614	A	6296	1	1488	
6247	36615	A	6297	1	1401	
6248	36616	A	6298	2	1256	
6249	36617	B	6299	84	955	

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6250	36618	A	6300	735	2718	RSFPRS RPS PFLLLSRYLRIH MV FSVLPFGLQNP KYLLSGSLQEK FRTPGINSHKTLDPNRV IIKVRR RLEKEKALRAYVGKSEVRNMH LRERCKL*KKREKNQIDTIKND KGDITDATEIQT TIREYYKHLY ANKLENLEEMDKFLDTYILPRL NQEEVESLNR PITGSEIAIINSL PTKRSPGPDGFTA EFYQTYKEE LVPFPLKLFQSTEKEGILPNSFY EASIIIPKPGRD TTKKENFRPIS LMNIDAKILNKILANRIQQHIKK LIHYDQVGFI PMQGWFNKRK SINVIQHINRTNDKNHMIISIDAE KAFDKIQPFMLKTLNKL GIDG TYLKVIRAIYDKPTANIILNGQK LEAFPLKTDTRQGCPLSPLLFI VLEVLARAVRQEKEIEGIQLGK EEVKLSLFADDMIVYLENPIVS AQNLLKLISNFSKVS GYKINIQK SQAFLYTNNRQTESQIMSELPFT TASKKIKYLG IQLTRDVKDLFK ENYKPLLNEIKEDTNK WKNIPC SWVGRINIMKMAILPKVICRFN APIKLPMPFFTELETTTLKFIWN QKRARKSILSQKNKAGGITLPD FKLYYKATVTKTAWY WYQNR DIDQWNRTEPSEIMPHIYNLIF DKPEKNKQWGKDSL FNK*CWE NWLAIWRKLLK
6251	36619	B	6301	1	2907	
6252	36620	A	6302	1	2358	
6253	36621	A	6303	1	1866	
6254	36622	A	6304	1	885	
6255	36623	A	6305	1	1059	MKNNSESFEP LLLIPRQRGSGV DLQQTPTDLQLRVLT VRRKTN KQDIHTKTPTVRHHHQRPKNP WDTFKA VCRGKFIALNAHKKR QERSKIDTLTSQLKEVEKQEQT QSKASRRQEITKIRGELKEIETQ KTLQKINESRSWFF EKINKIDRL LARLIKKKREKNQIDTIKNDKE DITTDSTEIQT TIREYYKHLYAN KLENLEEMDKFLNIYTL PRLNQ EEVESLNR PITGSEIAIINSLPT KKSPGPDGFTA EFYQSYQEELV PFLKLFQSIEKEGILSNSFYKA NIILIPKPGRD TTKKENFRPISLM NIDAKILNKIL/ANRIQQHIKKLI HHDQVGFI PMQGWFN
6256	36624	A	6306	1	1692	

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6257	36625	B	6307	1	2871	
6258	36626	A	6308	2	2315	
6259	36627	A	6309	1	1210	MMSFHLSVHTAIDGHSSSCS AWCSPIDRDYFEQENSSSSCC CCCYHCHRKHC GGKGLSFPGE MPLSPGHFNKMMYSVSELMQG SGSGTFIPLPAELSLWLLVTNTK GORMIKND AEIQT TIREYYKHL YANKLENLEEMDKFLDTY TLP RLNQEEVESLNR PITSS EIVAIIN SLPTKKSPGPHGFTA EFYQRYK EELVPFLLKLFQSIEKEGILPNSF YEASIIIPKPRD TTKKENFRPI SLMNSDAKILNKILANRIQQHIK KLIHHDQVGFIPGMQGWFNICK SINVIQHINRTKDKNHMIIISDAE KAFDKIQPFMLKTLNKLGIK YLG IQLTWDVKDLFKENYKPL LKEIKEDTNKWKNI PCSWVGKI NIMKMAIPPKATSPLESYKREK
6260	36628	A	6310	1	2745	MEGEMNEMKREGK FREKRIKR NEQSLQEIW DYVKRPNLRLIGV PESDGENGTKLENTLQDIIQENF PNLARQANVQIQEIQRTPQRY S SRRATPRHIIVRFTKVEMKEKM LRAAREKDRSTRQKV NKTQE LNSALHQADLIDYRTLHLKSTE YTFFSAPHHTYSKIDHILGSKAL LSKCKRTEIITNYLS DHSAIKLE LRIKNLTQNRSTTWKLN NLLLN DYWVHNKMKAEIKMFFETNEN KDTTYQNLWDTF

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6261	36629	A	6311	I	2052	MGDFNTPLSTLDRSMRQKVNK DTQELNSALHQADLIDIYRTLH PKSTEYTFFSAPHHTYSKIDHIV GSKALLSKCKRTEIITNYLSDHS AIKLELRIKNLTQNRSTTWKLN NLLLNDYWVHNEMKAEIKMFF ETNENKDKTYQNLWDAFNAV CRGKFVALNAHKRKQEGSKID TLTSQLELEKQEQTHSKASRR QEITKVRAELKEIETQKTLQKIN ESRSARLIKKKREKNQI/DAIKN DKRDITIDPTEIQTIREYYKHL YANKLENLEEMDKFLDTYTLP RLNQEEVESLNRPTGSEIVAIIN SLPTKKSPGPEGFTAIFYQRYK EELVPFLLKLFQSTEKEGILPNS. FYEASIIIPKGRDTTKKENFRP ISLMNIDAKILNKILAKRIQQHI QKLIHHDQVGFIPGMQGWFNIC KSINVIQHINRTKDKNHMIIISID AEKVFDKIQQRFMLKTLNKL LEVLAARVRQEKKIKGIQLGKE ELKLSLFADDMIVYLENPIVSA QNLLKLISNFSKVSEYKINVQKS QAFLYTNNRQTESQIMSELPFTI ASKRIKYLGIQLTRDVKDLFKE NYKPLLKEIKEDVNWKNIPCS WVGRINIVKMAILPKVIYRFNAI PIKLPMTSFTELEKTTFKFIWNH KGARIAKSILSQKNKAGGITLPD FKLYYKATVTKTAWY

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6262	36630	A	6312	2	2143	SSDGSWWTGFQWREWRQAGR SVNSWDNPKQEVRRASSKDKSR GSIQEAMRMQSSAKLLCSAWT LAYSIAVRTLSSDSEGQPPLVIH RQTGSGEDLQQTPTDLQLRVLT IRRKTNKQKGHPHQNPISRRQ EITKIRAELKKIETQKPFKKINES RSWFFKINKIDRLLARLIKKKI EKNQIDAIKNDKGNITNPTEIQ TTIREYYKHLYANKLEHLEEM DKFLDIYTLPRLNQEEVESVNR PITGSEIEAIINSLPTKKSPGPDRF TAELYQRYKEELVPFLLKLFQSI EKEGILPNSFYEASIIISKPGRD TTKKENFRPISLMNIDAKILNKI LANQIQQHKKLIHHHQVGFIPG MQGWFNILKSINVIHHINRTKD KNHMIISIEAEKAFDKIQPFML KTLNKLIGDGYLTLYLKIIRAIY DKPTANIILNGQKLEAFPFGTGT RQGCPLSPLLFNIVLEALARAIR QEKEIKGIQLGKEDVKLSLFAD DMIVYLENPVSAQNLLKLISNF SEVSGYKINVQKSQAFLYTNNR QTESQIMSELPFTIASKRIKYLGI QLTRDVKDLFKENYKPLLNEIK EDTNKWKNIPCSWIGRINIVKM AILPKTLNQKFSYWFRVNHXYI HQRTFPLKETEFNTIATLYNGA SP/CTAPKSTGTNGHQASGLPRF *RIAFCSALVKSRRKLYQGYLP GQTDREEGVSWCPGGP
6263	36631	A	6313	1	3018	
6264	36632	A	6314	1	2016	
6265	36633	B	6315	1	1215	

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6266	36634	A	6316	1	2268	MAGYPSETKPPEERSDSNICSSA IFTVLHPPLLIPRQTAFGMDLQQ MPTDLQLRVLTVKRKTNKQKG HPHQNPRTSPSSKTEDFQPTKI KRDKEGHYIMVKGSIQQEELTI LNIYAPNTGAPRFIKEYLRDLQ RDLDSTIIMGEFNTRLSTLDRS MRQKVNKDIQELNSALHQADL IDISRNLHPKSTEYTFFSAPHRT YSKIDHIVGSKALLSKCKRTEII TKCLSDHSAIKLELRKNTQNC STTWKLNLLNDYWVHNEM KAEIKMFFETSENKDTTYQNL WDTFKA VCRGKFIALNAHKRK QERSKTDLTLSQLKELEKQEQT HSKASRRQEITKIRAELEIETQ RTLQKISESRSWFFEKINKIDRS LARLIKKKREKNQIEAIKNDKG DITTNPTETQTTIKKEYYKHLK NKLENLEEMDKFLNTYTLPRLN QEEVESLNRPIITGSEIVAINSLP TKKSPGPDGFTAIFYQRCHEEL VTFLKLKLFQSIEKEGILPNSFYE ASINLIPKGRDTTKKENFRPISL MNIDAKILNKILANRI/WGN*AE ERNKEYSIRKRGSIQIVPVCRAH DCVSRKPHHLSQSP*ADKQLQ QSLRIQNQCTKITSILIHQ*QTNR EPNHE*TPIHNCFKENKIPRNPT YKGCEGPLQGELQTTAQ*NKR GHKQMEEHSMMLMDRKNQHRE NRHTAQGNL*IQCHSHQATNDF
6267	36635	A	6317	1	1797	
6268	36636	A	6318	2	2063	
6269	36637	A	6319	1	1212	

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6270	36638	A	6320	1	2718	MALFRVGMTTRRLGHANKFTR DLLVKRLLLYEFVVEIIPGLRTK TTLVGPLETGYTSSDSVNSPHF MLDIALSHNVKSTQLLLRPWR NIDCSRNHKNAKKEEQMGDDE INRQECSSSPAMEQSWTENDF DELREEVFRRSNYSELQEEIRTN GKEVKSFEKKLDEWITRITNAE KSLKHLTELKTKARELQLEKQE LTHSKASRRQEITKIRAELEIE TQKTLOKINESRSWFFEKINKID RPLARLIKKKREKNQTDTIKND KGDITDPTEIQTIREYYKHL TNKLENLEEMDKFLDTYVLPRL NQEEVESLNRPTGSEIEAIINSL PTKKSPGPDGFTAIFYQRYKEE LVPFLLKLSQSIEKERILPNSSYE ASIILIPKGRDITTKENFRPISL MNIDAKILNKILANRTQQHIKK LIHHEQVGCIPGMQGWFNIRKS INVIQHINRTKDKNHMIISIDAE KLISKFSKVSGHKINVQKSQAF LYTDNRQTESQIMSELPFTIASK RIKYLGIQLTRDVKDLFKENYK PLLNEIKEDTNKWKNIPCSWVG RINIVKMALLPRFSAIPIKLPM FFTELEKTTLKFIWNQKEP/CIA KSFLSQKNKAGGITLPDFKLYY KATVPKTAWYCYQNRDIDQW NRTEPSEIMLLIYNYLIFDKPDK KKEWKGKDSL FNKWCWENWLA ICRKLKLDPFLTPYTKMNSRWI
6271	36639	A	6321	1	2307	
6272	36640	A	6322	1	1989	
6273	36641	A	6323	1	3285	
6274	36642	A	6324	3	4732	
6275	36643	B	6325	1	2693	

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6276	36644	A	6326	603	2976	DNTARGETIRQQHLLFTNIRCSA ASAADTQANRVWSGPPANSNR PAA\RVLTVRRKTNKQKGHPH QNPICTSPPSKTKETQTTIREYY KHLNANRLENLEEMDKFLDTY TLPRLNQEEVESLNRRITESDIE AIINSLPTKKSPGPDGFTAIFYQ RYKEELVPFLKLFQSIKEGIL PNSFYEASIIIPKLGRDTTKKE NFRPISLMNIDAKILNKILANRI QQHIKKLIHHDQVGFIPGMQG WFNICKSINVIIHMKRTKDKNH MIISIDAEKAFDIQPPFMLKTL NKLIGIDGTYLKIIRAIYDKPTAN IILNGQKLEAFPLKTGTRQGCPL SPLLFNIVLEVLAIRQKEIK GFQLGKEEVKLSLFVDEMILSL ENPMVSAKNLLKLISNFSKVSG YKINVQKSQAFLYTSNRQTESQ IMSELPFTIASKRIKYLGIQLTGD VKDFFKENYKPLLNEIKEDTDK WKNIPCSRVGRINIMKMAILPK VIYRFNAIPIKLPMTFFTELEKTT LKFIWNQKRARIAKSILSQKNK AGGITLPDFKLYYKATVTKTAC HRVGRAQQHSISKWKWYIHDW SQVGPEGTNDSARYPDTTQKW TAAALQPLSRTSLKDSHEGKSS QWAE LRAVHLVLRFAWKEKW PDVQLYTDSWAVASGLAGWS GTWKKHDWKIGDKIEWGRATP VIAQWAHEQRGHGGRDGDYA
6277	36645	A	6327	3193	6107	SMKTGLEKKMKRNEQSLQEIW DYVKRPNLPLIGVPESDGDNAT KLENTLQDIIQENCPNLARQANI QIQEIQRTPQRYSSRRATPRHIIV RFTKVEMKEKMLRAAREKGRV THKGKPIRLTAALSAETLQARR DRRPINFILKEKNFQPRISYPAK LSFVSEGEIEYFTDKQMLRDFL MTRPALKELLKEALNMETTGA PRFIKQVLRQLRDLDTHTIITG DFNTPLSTSDRSTRQKVNKDIQ ELNSALHQADL
6278	36646	A	6328	1	1808	
6279	36647	A	6329	1	4695	

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6280	36648	A	6330	1	2915	MIMGDFNTPLSTLDRSTRQKVN KDTWELNSALHQADLIDIYRTP HPKSTEYTFLLAPHHTYSKIDHI AGNKALLSKCERTEIITNCLSDH SAIKLQLRIKKLTQNHSTTWKL NNLLNDYWVHNEMKAEIKIF FETNKNKDTTYQNLWDTFKAV CRGKFIALNAHKRKQERSKTD RTSQLKHLENQEQTTHSKASRRS WFFEKINKIHRPLARLIKKKREK NQIDAIKNDKGDITTNPTIEIQT REYYKHLYTN
6281	36649	B	6331	1	6730	
6282	36650	A	6332	1	378	
6283	36651	A	6333	3	1700	
6284	36652	A	6334	1	1759	
6285	36653	A	6335	2	409	
6286	36654	A	6336	1	2051	MFGRSRSWVGGGHGKTSRNIH SLDHLKYLHYVLTKNTTVTEQ NRNLLVETIRSITELIWGDQND SSVDFDFLEKNMFVFFLNILRQK SGRYVCVQLLQTLNLFENISHE TSLYYLLSNNYVNSIIVHKFDFS DEEIMAYYISFLKTLCLKLNNH TVHFFYNEHTNDFALYTEAIKF FNHPESMVRIAVRTITLNVYKV DNQAMLHYIRDKTAVPYFSNL VWFIGSHVIELDDCVQTDDEHR NRGKLSDLVAEHLHLHYLND ILIINCEFLNDVLTDLNRLFLP LYVYSLENQDKVFLIIHAPLV NSLAEVILNGDLSEMYAKTEQD IQRSSVLPTLSSLWQGSLSLNQ LQSGHLKCSSHLCGAQAADS VTGEIPAIRSLEWLISAGSKART FFFLKMLIGFWEKVDCYQRR QVLSTRLQEALPSNRLTDVA HSSCMLGFGSTAPRGSWIGDPA AVHPLPLGELAEHLGSKGTTTV TKHQPOAKPSIRCFIKPTETLER SLEMNKHKGKRRVQKRPNYK NVGEEDEEKGPTEDAQEDAE KAKGTEGGSKGIKTSGESEEIE MVIMERSKLSELAASTSVQEON TTDEEKSAATCSESTQWSRPF LDMVYHALDSPDDYHALFVL CLLYAMSHNK/GKSPEKEEGLS GTQSHPGKAGTFGKEGAERK
6287	36655	A	6337	2	2753	
6288	36656	A	6338	1	577	
6289	36657	A	6339	1	849	

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6290	36658	A	6340	1	1293	
6291	36659	A	6341	1	861	
6292	36660	A	6342	154	6208	RRAPGKIPGQASAF LGRTWSRP CLRTQLCVIVSCLAKAGVQGYL VGSPGGAKRFLFSERTGSFSKL AAMSSWLGGLGSLGQSLGQV GGS LASLTGQISNFTK DMLMEG TEEVEAELPDSRTKEIEAIHAIL RSENERLKKLCTDLEEKHEASE IQIKQQSTSYRNQLQQKEVEISH LKARQIALQDQFLKLQSA A QSV PSGAGVPATTASSSFAYGISHHP SAFHDDDMDFGDISSSQEINRL SNEVSRLESE
6293	36661	A	6343	3810	5310	SQGTCPDRPCNVSG*RI SIEEI EAGRIPNPHLGPVEERLALHVL QQQGLVPEHVESRPLYSPLQPD IEQAFPSFGRKSRWIRVIPFRFF LRCIIWNTRDVILDDLSTGEK MSDIYVKGWMIGFEEHKQKTD VHYRSLGGEGNFNWR FIFPDY LPAEQVCTIAKKDAFWRLDKT ESKIPARVVFQIWDNDKFSFDD FLDPYAIVSFLHQSQKTVVKN TLNPTWDQTLIFYEIEIFGEPAT VAEQPPSIVVELYDHD TYGADE FMGRICQPSLERM PRLA WFPL TRGSQPSGELLASFELI QREKPA IHHIPGFESEDTDLPYPP PQREA NIYMVPQNIKPALQRTAIEILA WGLRNMKSYQLANISSPSLVVE CGGQTVQSCVIRNLRKNPNFDI CTLFMEVMLPREELYCPPI TVK VIDNRQFGRRPVVGQCTIRSLES FLCDPYSAESPSPQGGPDDVSL LSPGEDVLIDIDDK EPLIQNYA
6294	36662	A	6344	1	527	
6295	36663	A	6345	5251	5711	PPQRGPPSSSCYSRSQRSVSRCP SRHRPSAASPRPGRPSGRSGLLA GLRLWAGAGCFQCPPCLQRGL FSPEALRPQAPAHKGLFSGSLW PQQRSHQGLRAAATS*DRRAG ALCKWCPRPSGT PRGEHLS*EN ESLPP**RWAHQTA PQESQTS
6296	36664	A	6346	1	924	
6297	36665	A	6347	1	894	
6298	36666	A	6348	1	525	
6299	36667	A	6349	6	343	
6300	36668	A	6350	1	2693	
6301	36669	A	6351	26	353	
6302	36670	A	6352	1	9182	

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6303	36671	A	6353	1	8655	EAAKDLADIAAFFRSGFRKNDE MKAMDVLPILKEKVAYLSGGR DKRGGPILTFPARSNHDRIRQE DLRRLISYLACIPSEEVCKRGFT VIVDMRGSKWDSIKPLLKILQE SFPCCIHVALIHKPDNFWQKQRT NFGSSKFEFETNMVSLGLTKV VDPSQLTPEFDGCLEYNHEEWI EIRVAFEDYISNATHMLSRLEEL QDILAKKELPDLEGARNMIEE HSQLKKKVIKAPIEDLDLEGQK LLQRIQSSSEF
6304	36672	A	6354	1	1338	
6305	36673	C	6355	152	404	
6306	36674	A	6356	137	1278	MDSQPNSTRGQSGRR/MEIKGI QLGKEEVKLSLFADDIMIVYLEN AITSQPKISLS**ATSAKSQDTKS MCKNHKHSYTPITDKQRAKS* VNHSQLLQRE*NT*ESNL*GT* RTSSRKTTNHCSMK*KRIQTNG RTFHAHG*EESIS*KWPYCPR*F IDSMPPSSYQ*LSSQNWKKRL SSSYGTTKEPASPSQS*AKRTKL EAS/LLPDFKLYYKATVTKTAW DMDEAGNHHSQQTITRTKNQT PHVLTHRWEIINNENTWTQEGE HHTPGLVVRSPDPEQNFKAVR CLDLPD/PSSSFLAVLTFHFKPA FLQSLR*DKPRS/SPALGTWHKP *KITPKKQ/HQAITKPNTEYRTA VKPSVVGALPDINSFLKLGGLH RITNGCLLD

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6307	36675	A	6357	1	2569	MRTKTQHTRISWDAFKAVCRG KFIALNAHKRKQERSKIDTLTS QLKELEKQEOTHKASRRQEIT KIRAELEKETQKSLQKINESRS WFFERINNIDRPLARLIKKKREK NQIDTIKNDKGDITTDPTIEIQT REYYKHLIYANKLKNLEEMDKF LDITYTLPRLNQEEVESLNRPTG SEIVTIINSLPTKKSPGPDGFTAE FYQRYKEELVPFLLKLFQSIEKE GILPNSFYEASIIIPKGRDTTK KENFRPISLMNIDAKILNKILAN RIQQHIKKLIHHDQVGFIPGMQ GWFNIRKSINVIQHVNRKDKN HMIISIDAEKDFDKIQPFMLKT LNKLGIDGTYLKIIIRAIYDKPTA NIILNGQKLEAFPLKTGTROGCP LSPLLFNIVVEVLASAIRQEKEI KAQNLLKLISNFSKVSGYKINV QKSQAFLYTNNRQTESQIMSEL PFIIASKRIKYLGIQLTRDVKDLF KENYKPLIKEIKEDTNKRKNIPC SRVGRINIVKMAILPKVIYRFNA IPIKLPMFTFFTELEKTTLKFIWN QKRAHIAKSILSQKNKAGGITLP DFKLYYKATVTKTAWYSYQNR DIDQWNRTEPSEITPHIYNLYIF DKPEKNKQWGKDSL FNKWWG ENWLAIWRKLKLDPLTPYTKI NSRWIKDLNVRPKTIKTLEENL GITIQDIGMGKDFMSKTP/TSNG NKRQN*QMGSNETKELLHSKR
6308	36676	A	6358	1702	2252	FLSLFFFISSLASSLSILLIHIMNSW IPHSPIFTDLNVESSRLCPLGDIM M*IPLTWYLIVTCTHLSREITTV PRGLARLWSFTRICPRTHCKPIP A\VLLRAGCPPSCWWDQDTHS QLPSKRSSYTLFFCTVTEYPFLD *WP*NHGTPC*TAPLWSMF/PCS CWYPVTGPGVSCSPSCVQVFSL FISHL*VRTCGVWFFVLAIVC*E *WFPASSMSQAVLVTVAL*YSL KSGSVMPPAFSFGGLTWRCR LFFGSIRTLK*IFPIL*RKSLVA* WGW*HYKLRWAVWPFSRY*F FLPMSM/VMFFHLFVSSFISLSS GL*FSLKRSFMSLVSWIPKYFIL FEAIVNGSSLMIWLSVCLLLLH KNACDFCTLILYPETFLKLLISL RRFWAETMGFSRYTIMSSANR DNLTSFFPN

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6309	36677	A	6359	207	1209	IPRHHPPKTKPGRS*/TP*IDQ*Q ALKLRQ/CINSLPTKKSPGPDGF TAKFYQSPSLTGKNDKEPEILPY FHADFLVVPGTHQASPVLMVL GHKSFPHRNSPPSVCMANFFTQ KPPSQSIHNAVNTHTDPPLFLVL LKDRGLLVIWCHESQGDELWH LVLLDSKCCFGSMTHRMEWSG PSAAGLLEFAGGPLQTLFAWVS AVEAAEQRILLNSKCCCLIIPLE ALSQRGIWPWQGSVPVPRPWTTT TLWPVRNQATQQETSLMPCQL EGKEPLALPTKEAEIEGRRTGEI KKVERDSNTNKEELLLDLAFK VSSLFDKLEEVVELLVIGELQL YPSK
6310	36678	A	6360	544	678	AFFHVSFGCINVFF*EVSVHML CPLFDGVVFFLVNLEFFVDSG
6311	36679	A	6361	7	94	VRTSGVWFFVLAIVC*E*WFP SSMSLIY
6312	36680	A	6362	381	431	ATKQDSVSKKKEEEEEEEEEEE EEEEEEEEEEEEEEEEKEK/GNK ERKK/DKGKARQVQARQIYLLS LHLGRIRKVPNNKA*SSCP
6313	36681	B	6363	1	603	
6314	36682	A	6364	1	987	
6315	36683	B	6365	1	444	
6316	36684	A	6366	977	1177	RTSISSPVSSTCSPLVMPTLLPOP TVPWRMWRPCTQ*RNAGTFSP AVAMGLPVEAVICLSV*DSPA
6317	36685	A	6367	1148	1395	
6318	36686	A	6368	33	663	VHVLCDTDETGNHHSQQTIA RTKNQTPHVLTHRERLSLRRL HSCAYSLHRWLGARHAQKGS NTKGCGGQGPRTSERGPASGEF SENCTSLLGQRGVFSPPRRALL HSPSDG\SVPLGAVDSSPPASTR RDWSHWA VGKPSPEREPAGKV T*TTRQLQPASP*REHPLLNSQH GHCLKISLPLPTVLSPPPLSLC SNVTFSTRPLT
6319	36687	A	6369	1	1314	
6320	36688	A	6370	120	410	
6321	36689	A	6371	1	492	

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6322	36690	A	6372	3	945	EEVPRSMSKKKKRKRKRSRKR EEEEEEEEEEEEEEEEEEEE EERR\EGEGEEEEEEEEEGKEKID PSHLELKMVRNKNTMYEVCLM PIGIKPQVNVGAMQCILVAPYIS PIVGVINFDQVNSQGGGSKME DGIHFRGKVMLHVGRKRQRVK KGLGYAFISSMKTNEYTKLV EWGLAEKIPKNVEATLELGNRR SKKTGGILPLLLWNFELERDEL GYLVEEISKQPSIQMTWVLLK AFRFIQEAEPKSSSENLPDNDVIE KKNPFSEGKFMLAAEICISNEE WNGNVNPQDYGGKWLQGMA EVFTATPSITGLEA
6323	36691	B	6373	1	792	
6324	36692	C	6374	348	884	
6325	36693	A	6375	1	588	
6326	36694	B	6376	1	5339	
6327	36695	B	6377	520	3146	
6328	36696	A	6378	1	2044	
6329	36697	A	6379	1	585	
6330	36698	A	6380	1	2433	
6331	36699	B	6381	53	441	
6332	36700	A	6382	2	425	
6333	36701	A	6383	1386	2569	FLRKHRESGKDEEMTALCSFPG VAGEDELQVIQPEKSVSVAAGE SATLRCAMTSLIPVGPIMWFRG AGAGRELIYNQKEGHFPRVTTV SELTNRNLDFFSISINITPADAG TYYCVKFRKGSPPDDVEFKSGA GTELSVRAPKPSAPVVSVPVRA TPEHTVSFTCESHGFSRDTITLK WFKNGNELSDFQTNVDPAGDS VSYSIHSTARVVLTRGDVHSQV ICEIAHITLQGDPLRGTANLSEAI RVPPTLEVTSQPIRAENQANVT WQVSNFYPRGLQLTWLENGNV SRTETASTLIENKDGTYNWMS WLLVNTCAHRDDVVLTCQVEH DGQQA VSKSYALEISAHQKEH GSDITHEPALAPTAPLLVALLLG PKLLLVVGVSIAIYICWKQKA

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6334	36702	A	6384	1	2453	MEPAGPAPGRLGPVLCLLLAAS CAWSASRQLPAVQVLRGDVTC GSDHVFLLAYIKHLAVAGRRRA LKATVHVHQRTLLRPGGCGSV PGKRAVTLISKCSGGQPAFPGA PAGNTNTFLVCSCGFPDLQSSR GPERALCAFIQCLMVRPEEQRE KNWPGPRGRSMARPGWNAKPP VVQAKAFKNWAVLELSTVSAR NLTGSRIPRENTKVILIGTIWVL CFLGSALGVCDPGGTHSHLAM HVVIFGPVGSNNPSIVIIIIIRPIL QIKSQRSRVGETFPGVSWVAEL ESKSKHTFSQCQALLQPWGRK LSSCSQRTYNLLVCIQSMNVI DKHLRKHGRSRVAGEEELQVI QPDKSVLVAAGETATLRCTATS LIPVGPIQWFRGAGPGRELIYNQ KEGHFPRVTTVSDLTKRNNMD FSIRIGNITPADAGTYCYVKFRK GSPDDVEFKSGAGTELSVRAKP SAPVVSGPAARATPQHTVSFTC ESHGFSRPRDITLKWFKNGNELS DFQTNVDPVGVESVSYSIHSTA KVVLATREDVNSQSFW*GPTVT LQGDPLRGATANLSETIRVPPTLE VIQQPVRAENQVNVTCQVRKF YPQRLQLTWLENGNVSRTEA STVTENKDGTYNWMSWLLVN VSAHRDDVKLTCQVEHDGQPA VSKSHDLKVSAHPKEQGSNTA AENTGSNERNIYIVVGVVCTLL
6335	36703	A	6385	1	405	
6336	36704	A	6386	91	2926	PACPSRLPFTNTDTHIDTSSPA SRSTRCLCISTHGVLAQSGGSSG GPAVPTVQRGIKMLVSGCAIIV RGQPRGGPPPERQINLSNIRAGN LARRAAATQPDADTPDEPWA FPAREFLRKKLIGKEVCFTIENK TPQGREYGMIIYLGKDTNGENIA ESLVAEGLATRREGMRANNPE QNRLSECEEQAKAAKKGMWSE GNGSHTIRDLKYTIENPRHFVD SHHQKPVNAIIEHVRDGSVVRA LLLPDYLVTV
6337	36705	A	6387	2	448	
6338	36706	A	6388	1	645	
6339	36707	A	6389	1	294	

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6340	36708	A	6390	23	321	RGREHTQGIPGAGKRWH*FKV LLTQ/CW*SEFSVIRQFKAGPGG LDQFRDRSK/RWLRDLRGRLLG SLNASLVLRALFSGNWGLTAN QL*LAVGAKGDPEA
6341	36709	A	6391	1	1599	
6342	36710	A	6392	1	561	
6343	36711	A	6393	1	1833	STLASSEGQGGFWRGPRALILL LLFLGPCHARSHDGKYSREKN QPKPSPKRESGEEFRMEKLNQL WEKAQRQERYPCRRRRRVKQV AAGTPRVFLKTPEMGVFELCRP SGPHYLISNAGVRLDLLNSPVL SIPESLRGKVNDLQNKKELLER KGRGETGLARPMHDLTAAQGG YGCALVHGAQVEGAGAQQWA GTVHATCRGETGTACQEALVT ATACSSCQRGQTRAPQGQHTL ESMGLNCLPQGAASGSDHHC PRISDLPGSAARTSRWPASSELH LPPVRLAELHADLKIQRDELA WKKLKLDGLDEDEGEKEARLIR NLNGHWRAEDAHQDGGVVK WDIPTVVGVGVAIALVAVKL FFLPINIRCVLSESPATLHSLQV ASVLWSLEFLPYGSRSPVVIQET VILAKYGLDGKKDARQVTSNS LSGTQEDGLDDPRLEKLWHKA KTSGKFSGEELDKLWREFLHH KEKVHEYNVLLLETLSRTEVHPG PQDGVASTGREHSPMETLFQEE LKHFEAKIEKHNYQK\QLEIA HEKLRHAESVGDRRSV*SASPR ESTPCLEGRTKGAGLPR*KKHL QD\LSGR\SRARHKRTLKALGS
6344	36712	A	6394	1	185	DFFDNSAQVTIAGIPCDIRHVSP RKIECTTRAPGK\V*GSPPLSQAI EGFFLKLEMLLRDWN
6345	36713	A	6395	1	1512	
6346	36714	A	6396	117	268	QSLLEYLHLYLHLCYLHLANK QELTLTWYKE*CTFFLPSV*NPF HQNLA
6347	36715	A	6397	1	500	

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6348	36716	A	6398	1301	2565	TLLTILPFYLFKNRTSLTGYLRI WILSTKLFCLSTLWLAPTLFLIP/ LPDPHDCISLIHLAFTFPHTSFF PIPHPDHTWFIDGSSTWPNRHSP AKVGYAIVVSSTSILEATALPPS TTSQQAELIALTRALALAKGLH VNIYTDSKYAFHILHHNAVIWA ERGFSTQRSSIIIASLIKTLKKA ALLPKEAGVIHCKGHQKASDPI AQGNAYADKTKFLDLAFPPLR LSFTCQITQAVSQALGIQWNLH TPYRPQSSGKDWTVFLPLALHR IRARPREATGYSPFELLYGRFTL LSPNLVPDTSPLGDYLPVLWQA RQEIHQAAANLLSTPDSQLYED TLAGRSVLIKNLTPQTLQPRWT GPYLVIYSTPTAVRLQDPHPWV HRSRIKLCPSDNQPNLSSSSWKS QVLPTTSLKVTLISEEQ
6349	36717	A	6399	581	2517	LFLGYSHTSLLPFPVQSLHLL PLYLHTLTHKYGIPLPPWRPIM HPLPSH*NLITLTLNANIPSCST L*KD*SLLSLTCYSMAF*/QPINS PYNPILSVQKPKDPYSSFRYVY SLFVESPTITIVPGPDFNLASHIIP DTPDPYDCISLIHLTFTPFPHVS FFPVPHPFHTWFIDGSSTRPNCH TPAKAGYAIVSSTSIIEVTTLPHS TTSQQAELIALTRTLTLAKGLC VNIYTDPI SCTTMLFYGLKCFLT MQGSSIINASLIKTLKKAALLPK EAGVIHCKGPQKASDPIAQDNT YADKVAKKAASVPTSI PHSSFS PSHLVTPTYSPTETSTYQSLPTQ GKWFLDQGKYLLPASQAHSILS SFCNLFHVGYKPLARLSELLISF PSWKSILKEITSQCSICYSATPQ GLFRPPFPKHQAWGFVPTQD WQIDFTHMPQVGKLYLLVW VDTFTGWVEAFPTGSEKATVVI SSLLSDVIPRFCLPTSIQSNNGLA MISQITQAVSQALGIQWKLCTP YHPQSSGKVKWANGLLKTHLT KLSLQLKKDWTVLLPLALLRIR ACLRNATGYSPFELLYRCSFLL GPSLIPDTRPTWTAPPKTWHPY YLLSSHTPIHRSQLLIHALLLFTL PVYTVSPSHHS

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6350	36718	A	6400	281	1095	DCSKRNRHSQVIAEGNICKIQE VRRKEDTQGGEKDPESLLLPL LAPGPT/YSTYYNISVAKAELL NKLKQPEMAEIGLGEEVDH ELAQQKIQLIESISRKLSVLREA QRGLLEDINANSALGEEVEANL KAVCKSNEFEKYHLFVGDLTK VVNLLLSLSGRLARVENALNSI DSEANQEKLVLEKKQQLTGQL ADAKELKEHVDREKLVFGMV SRYLPQDQLQDYQHFKMKS LIIEQRELEEKIKLGEEQLKCLR ESLLGPSNF
6351	36719	A	6401	1	972	
6352	36720	A	6402	514	736	
6353	36721	B	6403	446	991	
6354	36722	A	6404	521	903	NIKPASQISPG*I*VHSSPTQRLS APPSAA/GRLLSLSLPAGLVGGD TARCIPAGRRLPLCSWLDPGKL LHLSLKSKGSGGRSGAGTLQEG NQSVCIAEKPLKPAIQTQSG MNVLCRAYSWVIDWD
6355	36723	A	6405	11	545	
6356	36724	A	6406	3	2920	
6357	36725	A	6407	1	2388	
6358	36726	A	6408	275	479	
6359	36727	A	6409	1	3810	
6360	36728	A	6410	7	1047	
6361	36729	A	6411	1	705	
6362	36730	C	6412	304	638	
6363	36731	A	6413	99	759	WAYLDFWM*HIPHLGVLL/SAH LLSDLNSCQF*MGSRTGEGSATG PGSCSAALPLGPYPADPMVLE VSMADRDAASPHDPLAKFLFPVP MTLHSALLEVLVPEGGLTPPGD TTTIPLNW/IVKIAT*TLWVPPTF KFTGCRLNTMWKLPRLGASTL *SNSLRCTLTFSHDSGWDAG HQVIRPHGFAGYNTCGCFHRL MLSACGFSRQMVQAVNGSTTL GSGG
6364	36732	A	6414	1	685	
6365	36733	A	6415	1	1359	
6366	36734	A	6416	3	7714	
6367	36735	A	6417	1	723	
6368	36736	A	6418	1	528	

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6369	36737	A	6419	38	530	HSPR RSAASLLSQRDHEPHQKE ETPNTSEHQKEKTPDTPPLRTV TLTVRVHGFIEVSETKNPPIPD TKLRG/ERLQGFGLAGFRSE/GC RPSP*VLQLIKAVWTQRPLGGR WDWAPWSRRWCSSGRLRPHR NQWSGWEAQAWGLQVPEPCP AGRQLRPGEKSSTAP
6370	36738	A	6420	1	649	
6371	36739	A	6421	1	987	
6372	36740	A	6422	1	924	
6373	36741	A	6423	1	435	
6374	36742	A	6424	1	147	
6375	36743	A	6425	1	1107	
6376	36744	A	6426	3	913	
6377	36745	A	6427	1	159	
6378	36746	A	6428	313	1083	
6379	36747	A	6429	1	1245	MAQELRDTCTSFSSRFDQVEER VMVIEDQINEMKQEEKFREKR VKRNKQSLQEIWDYVKRPNLR LIGVPEKNLEETDKFLDTYTLPR LNQEEVESLNRPIDSEIEAIINS LPTKKSSGPDGFTAIFYQRYKE ELP/RQRHNKKREF*TNIPDEHR CKSPQ*NTGKPNPAAHQKAYPP *SSGLHPWDARLVQHTQINKRN PAYKQNQGQKPHDYLSRCRKG L*QNSAALHAKNSQ*IRY*WDI SQNNKSYL*QTHSQYHTEWAK AGSIFFENWHKRGMPSLTTPIQ HSVGSSGQGNQAGERNKGYSI RKRGSQIVPVYR*HNCISRKPH HLSPKSP*AGKQ/SSAKSQD/DKI NVQKSQAFLHTNNRQTESQIMS E/APIHNCYKENKISRNPYKGC EGPLQGELQTTAQRSKKGHKQI
6380	36748	A	6430	39	314	KSECLIYTKGSQRLASNGTKLD GE*L**VDRIRLQKIGNDKLLPA KGGCSNPSQRS*KPRKKIRQMA N*NKQHRGDLK*PDGAENHGT RTT
6381	36749	A	6431	213	843	VDRSRLQKVSNNKLL*AKGEC NPLQGS*KP*KKIRRMAN*NKH CREDLK*PDGVENNGTRTS*FM HKLQ*PI*SSGRKGISD*R*N**N KIHQG*NEGKSVKGSQRERSSY PQRKAHQTSNGSLSRNPSTQKK VGANIQHS*RKEFSTQNFISST KLHK*RRNKIFYRQADAERFCH HQACVTRAPEGSTKHGKKQPV PAPAKTGQIV

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6382	36750	A	6432	1	2112	MRAFVVLMDVSKLPSEGGPG LRSNQQHMRMFLTSVDRGSVS LLADAVAAATPQGTSQPRGPS NLAADLRVAEESGMENLFLK MSFDSIRPAQDGQCTPEISMVTP SPGWSVHTGDLGDGHPLPRMVS AHRRSRWSPPPQDGQCTPEISM VIPSPGCSVHTGDLGDGHPLPRM LSAHRRSRWSPPPQDAQCTPEIS MVTPSPGWSVHTGDLGDGHPLP RMVSAHRRSRWSPPPQDAQCT PEISMVTPSPGCSVHTG
6383	36751	A	6433	1	648	
6384	36752	A	6434	1	1539	MLVSFVSLGSLCLQPGSQTLLE KNRTVKPHVSFTLLPALSHVSE KNEAESMNSLIPPPNLHTPAQ APFPLPTKEQDRSSSPATEQSW TENDFDELTEVGFRRSVITNSSK LKEDVRTHCKEAKNLEKRLHE/ SAN*NQQCREDLK*PEAEIHGT RTS*HMHKLQ*PI*SSGRKGVSD *GSNQ*NK*WGEWNQVGKHS GYYPGELPQPSKAGQHSNSGNT ENTTKILLEKSNPKTHNCQIHQ G*NEGKSVKGSQRERTREARA NKFKS*QKARYN*DQCRTERD RNTENPSKN**IQEPVF*KDQQN **NASKTNKEEKREESNRRNKK **KNRTVKPHVSFTLLPALSHVS EKNEAESMNSLIPPPNLHTPAQ APFPLPTKEQDRSSSPATEQSW TENDFDELTEVGFRRSVITNSSK LKEDVRTHCKEAKNLEKRLHE WLTRINSVEKTLNDLKLKSMA RELHDTCTSFNSRFDQVEERVS AIEDQTNEINNGENGTKLENTL QDIIQENFPNLARQANIQIEIRR TPQRYSSRKATPRHIIVRFTKVE MKEKVLRAAREKGLERQEQTN SKASRRQDITKISAELEKETQK TLQKINEFRSRFFKKINKIDKTL ARLIKKKREKNQTDIAIKNDKR DITTDPTIEIQTIREYYKHLNAN KLENLEEMDKFLDTYTLRLNQ EEAESLNRTITGSEIAIINSLPT
6385	36753	B	6435	137	586	
6386	36754	A	6436	129	506	
6387	36755	A	6437	1	237	
6388	36756	A	6438	182	1034	

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6389	36757	A	6439	203	650	SAIVCGSPLRLRMQAVSSRINSA HSRGAIYSQASSSAACPSVSI AF LRR*IEANVS/WIRTLSTLCTPK CGPGFKHRIVLCKSSDLSKTFPA AQCPEESKPPVRIRCSLGRCP PP RWVTGDWGQ/CDSRDPRPGRR RRDFCRNGRAGAGH
6390	36758	A	6440	207	426	AECTRCAIPK/HSCYPVLLIVVS P*KKQ\NCSLGELSCWRRESCRS SWSNKALPSLTRCLRGFVCGLS CYKGSS
6391	36759	A	6441	524	783	TAVLAARISNQWILSCWS/AVG CTPKCGPGFKHRIVLCKSSDLS KTFPAAQCPEESKPPVRIRCSLG RCPPPRWVTGDWGQLSPTREK
6392	36760	A	6442	1	1524	
6393	36761	A	6443	1	8738	
6394	36762	A	6444	1	642	
6395	36763	A	6445	1	549	
6396	36764	A	6446	8	434	
6397	36765	A	6447	1	2922	
6398	36766	A	6448	18	1158	FLDFDCPYGSAHITGLRFWLPW YRKRQRYWGSHGNCMPPPSLR VPERCPSHTEPRNLGA*ELLLL GLSEDPELQPILAGLSLSMYLVT VLRNLLISLAVSSDSHLHTPMC FFLSNLCWADIGFTSAMVPKMI VDMQSHSRVISYAGCLTQMSLF AIFGGMEEVNMLLSVMAYDWF VAICHPLHYPVIMNPHLGVFLD LGAFFLSLLDSQLHSWIVLQFTF FKNVEISNFV*DPSQLNLACSD SVINSIFIYLD SIMFGFLPISGILW SYANNVPSILRISSDRKSKAFS TCRSHLAVVCLFYGTGIGVYLT SAVAPPLRNGVVASVTYAVVT PMLNPFISQRNRDIQSALRRLR SRTVESHDL LHPFCVGGKKGQA
6399	36767	A	6449	2	1535	
6400	36768	A	6450	1	635	
6401	36769	A	6451	222	1040	
6402	36770	A	6452	2	1135	
6403	36771	A	6453	1	576	

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6404	36772	A	6454	2	694	QCGGIQRSHGWSWSQEASDSVW QLQSMWMLDKLTGVFAPRPST GPHKLR\IECLSRJIFLRNRLKYA LTGDEVKK\ICMQRFIK\NDGKV RT\DITYPVGFMDV\ISIDKTGR EFPVLIYDTKG/RAFAVHRITPE EAQVPSCAKVRRDLCGAQKGIP HLVTH\DARTIPLRSPSSKVND\ TIQ\DLWDWARFT*FSSKFDNW *TCCMGDWEGA*P*GRNWVLI HQQRRRAPWDLF
6405	36773	A	6455	1	243	
6406	36774	A	6456	3	766	
6407	36775	A	6457	1	741	
6408	36776	B	6458	500	8643	
6409	36777	A	6459	1	7863	MKPRTLTVRVTALKVARLESV. PSDVQMCSEFLPSDSAAQLASP SGSRTGAAGGAAYQSCAVLPH SSALWVVDGTRCRGAGGSAHQ GGSATQEPTERVEGSGMAGCR SRVLPHWKAANVLGMSVESAP AVEEEKGEELEQKEKEKEEDTS GNTTHSLGAEDTASSQLGFGVL ELSQSQDVEENTVPYEV DKEQL QSVTTNSGYTRLSDVDANTAIK HEEQSNEDIPIAEQSSKDIPVTA QPSKDVHV VKEQNPPPA
6410	36778	A	6460	2	669	ERRRRKLTI PCPPHPAPPTGGQ ACRENAEGIL*AANTSEPGKDA EK*KIKV*LAP/CSHSGSSLQSDP HFGCSLGPS/DPA LGLSGCILPPC SGSYLAPAPNSRIPKPKLKPW/H /ESYLPSA VRPHGTQAPGLWPE RGL*PAGFLLRPEPVRAASER/Q EAVSPER*VPRPPKAQQLHGQS PDPSSLCTALRQDHTHWLDARS VYPDWRGQPWPPLHQDCGHG GWR
6411	36779	B	6461	241	369	
6412	36780	A	6462	1	510	
6413	36781	B	6463	1	630	
6414	36782	A	6464	229	561	SCRGYSRILLLFHKSSWCSQVIS IFRYNIICSR LPRSWKWR LPVY MNWL*YHWFQYHSSINFISFR SMWFIIINFKRSPA FILSGSWSIS IARWQIFVFFTTFGSRTKV

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6415	36783	A	6465	1271	1710	TEGLGHRSETPGGAALDALTG ERPRVACFPAARGRLRPRRL MIGPFETGGGQRLTLRPRRR QRRRP/WQGLERPHVRNWGIEL ETLRDAFRPQPSVWRTARGEA GKRKGRLVECLGSQRKVLEGV LLYAVTRGSFPNLFTRD
6416	36784	B	6466	1	772	
6417	36785	A	6467	1	1272	
6418	36786	A	6468	3	236	
6419	36787	C	6469	1	457	
6420	36788	B	6470	148	324	
6421	36789	A	6471	1	1407	
6422	36790	A	6472	1	651	
6423	36791	A	6473	619	835	
6424	36792	A	6474	52	535	
6425	36793	A	6475	319	647	LCRRIMYFCVMKNWMQSLW KLCTNKR*RIDKPTLHQVVRK *LTPLGMKNQVDSLELLETRSL KKDPVELGSKSLRCCCQTEPV NLLPHVSIGTLKI*SRILRLQRP
6426	36794	A	6476	39	515	
6427	36795	B	6477	1	807	
6428	36796	A	6478	3	247	GANICCW*GLQE/VFHSW*KTQ EPSWLHLVDPTTGLQVELPASP APFARIPQPLGGRWDWAPWSR GWCSSGRLGQHRSPWSG
6429	36797	A	6479	27	363	
6430	36798	B	6480	1132	1268	
6431	36799	A	6481	1628	2008	
6432	36800	A	6482	953	1087	
6433	36801	A	6483	2	443	QLAGRCGGRGMSGNRGC/WGA CGPAGVPGG/CWAWCALHSEE PASPALRSISRRAAFAFRGRAR DLQPAMPEPPTPSVGSCAAQAS PTSAAPCSMAPSPIDHPRAEECV ARRGTGRHDELIVALPFMMIPW HSSIQPFTIHPFNWNFG
6434	36802	C	6484	175	423	
6435	36803	B	6485	122	608	
6436	36804	A	6486	644	1149	KTMHWKAPLMSWHMHRASSQ KQTRTGTQT/MEAQLQLQRY QEALLQVLRKGEKKA FNMGNI SEVLQRADESCSQFYERLYEAF QLCSPFDPEATENQCMVNAVF VGQTQGDIRRKLQKLECFTGM NVTQVLEVATKVYTNCEEETQ GKGQFAGGSTYGGGECPKTK
6437	36805	A	6487	1	2847	
6438	36806	B	6488	329	742	
6439	36807	A	6489	1	1035	

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6440	36808	A	6490	13	630	INPPPPFRPEPPSSNSPKMTDH KGERGEATRYMFSRPFARKVHG VVPLGPHICRIYRKGDIVDIKG MGYCSKKGIAPTKCY\HGQNLE GVLPMLPQHACWPFVVNQPV GQSFFPRELMCRIEHI*ALLRAR DKLPETVLKENDSEKERSPNEK GTWGSNLKRHPGSTPEEAHFV RTQWGRSLELAGTLFPMNFMG IIGVKEIK
6441	36809	A	6491	1	1020	
6442	36810	A	6492	1	330	
6443	36811	C	6493	250	372	
6444	36812	A	6494	1	345	
6445	36813	A	6495	2	335	TVRAYNVQHAVGIVVNRQVK GKIPAKRINVGKHKHSTS*EN FLKRMKENDQKKKEAKEKVT WIQLKHQSAPPRE/AQCERTNG KEPELLEPLPYEFMHNTYIHIYV CVH
6446	36814	A	6496	2	490	
6447	36815	A	6497	150	536	NCKISFLHFCYIFVKALKRISAL SRGKILAKRINVRIEHIKHSKSR DSFLKRVKENDQKKKEAKEKG TWVQ/RKAPGKNLVYISLVRLA L*G*DLTHHIIILFPFFL**PAPP REAHFVRTNGKEPELL
6448	36816	A	6498	54	553	
6449	36817	A	6499	131	803	TMFCQTGSSVRRVGPWPWAEN RTAMLRPCGGTFARKTRLSRLG NSPKMNEQQRGKRRGTPHMF KGLLRKHG\VVPLAHIFMRIYK \KGDIVRHPRGMGYLVPKRELP PQSCYPWPKPGRSLTNVTPAML VGHLL*NKQV*GQRFLPKRNL MWRI*APFRHFLRSPRLASLKT CGRENGSRKKERKPKGGKVTW GFQLKRRHLGFPPQEEATFLK EPIGGREP
6450	36818	A	6500	1	489	

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6451	36819	A	6501	29	2028	ENEEEGEKMASTDYSTYSQAA AQQGYSA\YTAQPTQGYAQT TQAYGQSYGTYGQPTDVSYT QAQTTATYGQTAYATSYGQPP TGYYTTPAPQAYISQPVQGIYGT GAYDTTATVTTTQASYAAQS AYGTQPAYPAYGQQPAATCPT RTED*\NKPTETSQPQSSTGGYN QPSLGYGQSNYSYPQVPGSYP MQPVTAPPSYPPTSYSSTQPTS YDQSSYSQNTYQGQSSYGGQSS YGGQSSYGGQPPTSYPPQTGSY SQAPSQYSQQSSSYGGQSSFRQ DHPSSMGVYQGQESGGFSGPGE NRSMSGPDNRGRGRGGFDRGG MSRGGRRGGRRGGMGSAGERG GFNKPGGPMDEGPDLDLGPPV DPDESDNSAIYVQGLNDSVTL DDLADFFKQCGVVKMNRKTG QPMIHIYLDKETGKPKGDATVS YEDPPTAKAAVEWFDGKDFQG SKLKVSLARKKPPMNSMRGGL PPREGRGMPPLRGGPGGPGGP GGPMGRMGRRGGDRGGFPFRG PRGSRGNPSGGGNVQHRAGDW QCPNPGCGNQNFARTECNQC KAPKPEGFLPPFPFPPGGDRGRG GPGGMRGGRRGGLMDRGGPGG MFRGGRRGGDRGGFRGGRGMD RGGFGGRRRGCPGGPPGPLME QMGGRRGGRRGGPGKMDKGEH
6452	36820	A	6502	1	693	
6453	36821	A	6503	3	657	
6454	36822	A	6504	1	434	
6455	36823	A	6505	208	443	

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6456	36824	A	6506	3	2650	LLPAFLLLCSDSHFLQFCSQFAP RKTQSGSVNNIQANIIAKKSN NHLMKKNDQKFKDLPQMAGH PIHHQAQGPFGAKNPQEQQRRP MGQTTLPAEQEESRVKCKNCG AFGHSARNKTCPIKRWGALPL QVLGSHKEKENLKPAKAQLPFT TPGPFTTNDREKERSPSSTMNPS EMQRKASPRRWKHHNQTPSIH KVNKMVMSEEQMKLPSTKKA EPPTWAQLKKLTQLPKKSLEN TKVTQTPENTLLAALMIVST/A GAAAANYTYWAYVPFPLIRA VTWMDNPIEVYVNNSAWVPGP TDDRCDPKPEEEGMMINISTGY RYPPICLGRAPACLMPIQNW LEVPTVGTTSRFTYHTGLLTFR DVAIEFSQEEWKCLDPALEDSY TRRKANSCGKPYKCNCEGKAF TQNSNLTSHRRIHSGEKPYKCS ECGKTFTVRSNLTIHQVIHTGE KPYKCHECGKVFRHNSYLATH RRIHTGEKPYKCNCEGKAFRGH SNLTTHQLIHTGEKPFKCNCEG KLFTQNSHLISHWRIHTGEKPY KCNCEGKAFSVRSSLAIHQTIHT GEKPYKCNCEGKVFRVGRGVSI GTTCLLSVFQVITVSSRKSRA SPENRATQSILILAPPTSRGSGPGP ASVLRRLAQTRKRMAWTESCT AACAFPSCLVLLYRGRGVPTDL QVPAPLFSTQSKLKRPGSR TKSS
6457	36825	A	6507	54	360	CSTMNPSEMQRAPRRQRHRS RAPSAHKMNMVMSEEQMKL PSTKKAEPPTWAQLKKLTQLA KKKILENTKVTQTPENMLLAAL KTVSTVSAGVPSSEESD
6458	36826	A	6508	525	3656	SSTMNPSEMQRKAPRRRRHR NRAPLTHKMNMVMTSEEQMK LPSTKKAEPPTWAQLKKLTQLA TKYLENTKVTQTPENTLLAAL MIVSMVVS LMPAGAAAANYT YWAYVPFPLIRAVTWMDNPIE VYVNNSAWVPGPTDDHCPAK PEEEGMMINISTGYRYPPICLGR APACLMPIQNWLEVPTVGT TSRFTYHTIDLMTEKWVVLASV EVLLRFPLKPGEDPTARYVSNK KCQPSVDWPTTISQRRGY
6459	36827	A	6509	1	246	
6460	36828	A	6510	1	246	

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6461	36829	A	6511	1	279	
6462	36830	A	6512	1	363	
6463	36831	C	6513	109	245	
6464	36832	A	6514	2	429	LMTFCWDTPRQSGVPRERMPH TGTWRTVGIRCPKKKLRSANSS MMRGKVQPFRR/DIAYGAAPF EDLQVDFREMPKCGGNKYVLV LGRTYSGWVEAYPTRTEKTR VTPVLLRDLIRFRPLWIGSDN GPAFLAALVQKTAK
6465	36833	C	6515	31	895	
6466	36834	A	6516	2	4735	
6467	36835	A	6517	263	418	
6468	36836	A	6518	120	295	YDPLPTWILGKISQRGAEEPAQ HPGCQL*LPPP/SPPRSTSSPSCA GLTSVSPRPRFPR
6469	36837	A	6519	1	1758	MKIRRRFPSSLQLSADLQVPVR KAPROGVSQEKRTKPSLELMIS GTISQEDIRNNVTRGCTPPAIQR VISSPLLAIRNNVTEGVYTPCD TGGRVHLPVILLISRDDGGHDS FNIAVDVHSPCDTDPNIQGVY DMTPNIAMNVQPPGTISQKRCT LPAILGLISYASSVNIRSNITGWL YIDRYVGSHVILYPLGIRMGVT GEMKGERRRGLHAATKWLEE HAPADYQNPQEYGRTPQTPGTQ PQLDPHEREDMQRLNRDREAL LEGFKRGAQKATNVNKVSEVI QGKEESPAQFHQRLCEACAKQ VLVNGDAVSREEKRKENERQA RRNADLLVSCSNQSGPPKEARE ELWTKDYRPGQDLRLLSQATL TFHPTVPSPTLLGLLPAEDSWF TCLDLKDAFFPIRSAPESQKLFA FQWEDPESALAKTVRQRCVSC RQHHAIGKVQPFRR/DIAYGA AAFEDLQVDFTEMPECGGNKY LPVLGRTYSGWVETYPTRAEK AREVTRVLLRDLIRLELPFRIG SDNGPAFVADLLQKTATVLGIT RKLHAASRPQSSGKGIQNNRTG GVYTPCDIESHVILFRSGY
6470	36838	A	6520	1111	1342	MFVPHIGFQNTAALCLLRGLVL FP*PVGFPAGSCLLI*WNRHWH VPDFSCVTTPQEWCGGVSDVC CGHPHAEPFHLQ

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6471	36839	A	6521	1	1144	MRGAQKATNVNKLSEDIQGKE ESPTQFYERLWEAYRMYTPFDP DSPENQRMIPMALVRQSAEDM RRKLQKQAGLAGMNPQLLEI ASQVFNVRDAVSRKENGKENG GQARRYADLFSRTKNYQPVD LRLHQAQLTFHPTVNPSTLL GFPPAEDSWFTCLDLKDAFFPIR LAPERQKLFAFQWEDPESGWPP CWRALAATALLVQEANKLTLG QKLNKASRAVVTLMNTKGHH WLTNATLTDYQTLLENPRITIE VCNTLHPATLLPVSKSPVKPGC VEVLDSIDSSRPDLWDQPWASV DWELYLDGSSFFNPQGEVEG\S RGDTSELPPCWVCGIPALTQRL EKQHLPPSGHQGSLKHLIWDLL LLTKKRTFSSMI
6472	36840	A	6522	1	554	
6473	36841	B	6523	63	620	
6474	36842	A	6524	1	796	SRTKNYQPVDLRLHQAQLT FHPTVNPSTLLGFPPAEDSWFT CLDLKDAFFPIRLAPERQKLFAF QWEDPESGWPPCWRALAATAL LVQEANKLTLGQKLNKASRA VVTLMNTKGHHWLTNATLTD YQTLLENPRITIEVCNTLHPAT LLPVSKSPVKPGCVELDSIDSS RPDLWDQPWASVDWELYLDG SSFFNPQGEVEG\SRGDTSELPP CWVCGIPALTQRLKQHLPPSG HQGSLKHLIWDLLLLTKKRTFS
6475	36843	A	6525	3	2640	
6476	36844	A	6526	2745	3732	IRIGKNYFKVHMEPKKSPHRQV NPKPKEQSWRHHTT*LQTLQG YSNQNSMPGPTPQPSTPAPGG NLRNPQSSDLLQVTKQQGQAL AIQREAPLHRIPAIPAIPWYFQP QPATQLGSPVPDPSSAMM/SR RAHRSRGPDROGYPLQGD*PGE PRPQEH*RGHSQERLPSEKQTP ICPPAQTQHPEEPDAHQPYKH LFQVCAHQGHVPAQRRN*PGY WERYHSAEDPELQPILAGLSLS MYLVTVLRNLLIS
6477	36845	A	6527	1	1860	
6478	36846	A	6528	1	1458	
6479	36847	B	6529	1	1503	

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6480	36848	A	6530	3	515	TISQKRCTLPAILGLISYASSVNI RSNITGWL YIDRYVGSHVILYP LGIRMGVTGEMKGERRRGLHA ATKWLEEHAPADYQNPQEYGR TQLPGTQPQLDPHEREDMQRL NRDREALLEGFKRGAQKATNV NKVSEVIQGKEESPAQFHQRLC EAYRMYTPLDHDSPENQRMH MALVRQSAEDMRRKLQKQAG LAGMNPSQLLEIASQVFVNRDA VSPKENS KENGGQARRHDDL SPVEPDCVEVLDSIHSSRPDLRD QPWPSGDW/RTICGWEQLLQPP RRERCRVCSDNPGH/WLLKPHR CPRPLQARKLNSLLSLGP*NSTR DCVRPIVCILPLITIALKISA
6481	36849	B	6531	96	2524	
6482	36850	B	6532	61	2025	
6483	36851	A	6533	674	2913	
6484	36852	B	6534	120	1849	
6485	36853	A	6535	1	426	
6486	36854	A	6536	2	475	
6487	36855	A	6537	1	501	
6488	36856	A	6538	15	593	SMWWNSAREPCPWRIVDDCGG AFTMGVIGGGVFQAIKGFRNAP VCRLLEAPLFIYSCSRVSPTV NVSSERAESRPTLFMAVSLHMA WCLAHIGIRHRLRGSANAVRIR APQIGGSFAVWGGLFSTIDCGL VRLRGKEDPWNSITSGALTGA VLAARSAPLAMVGSAMMGGI LL/ALIEGVSILL/TR*TATV
6489	36857	A	6539	2	557	RRFRASAMEEYAREPCPWRIVD DCGGAFTMGVIGGGVFQAIKG FRNAPVGIRHRLRGSANAVRIR APQIGGSFAVWGGLFSTIDCGL VRLRGKEDPWNSITSGALTGA AVLAAR\SGPLAMGGLQQ*WG GILFAPHLRAFGILLTRYTAQ\Q FRNAPPFLEDPSQLPPKDGTPA \TGYP\SYQQYH
6490	36858	A	6540	223	2274	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
6491	36859	A	6541	2795	3762	FLHFHLRNAVPHQQWKNKAGW RMTLRS*EKKASDDQITLSYGR TFKPK/DKEVENFEQNLEECITR ITNTEKCLKELMELKTKARELR EECRSLRSRCDQLEERISVMED EMNEMKREGKFREKRIKRNEQ SLQEIWDYVKRPNLRLIGVPES DGENGTKLENTLQHIIQENFPN LARQANVQIQEIQRTPQRYSSRI AIPRHIIVRFTKVEMKEKMLRA AREKGRVTLKGKPIRLTADLSA ETLQARREWGPIFNILKENNFQ PRISYPAKLSFISEEEIKYLTDKQ MVRDFVTTRPALKELLKEALN MERNNRYQLLQNHAKF
6492	36860	A	6542	245	1293	TGAVPIRPSWQRWGKNRTEKL ETLKRRAPLLLQRNAVPHQQQ NKAGWRMILTS*EKKASDDQIT LSYGRTFKPK/DKEVENFEKNL EECITRITNTEKCLKELMELKTK APELREECRSLRSRCDQLEERV SAMEDEMNEMKREGKFREKRI KRNEQSLQEIWDYVKRPNLHLI GVPESDVENGTKLENTLQDIIQ ENFPNLARQANVQIQEIQRTPQ RYSSRRATPRHIIVRFTKVEMK EKMLRAAREKGRVTLKGKPIR LTADLSAETLQARREWGPIFNIL KEKNFQPRISYPAKLSFISEGEIK YFIDKQMLRDFVTTRPALKELL KEALNMERNNRYQPLQNHAK
6493	36861	C	6543	116	283	
6494	36862	A	6544	51	281	KSQNQLLSSKGEYADGQQDQV SIPAPSPYTLSGPQTQSCPVRPE LGL*GASSAVQAPAVRYLTRFL LFVMSNLHSP
6495	36863	B	6545	1	897	
6496	36864	B	6546	91	8030	
6497	36865	A	6547	126	362	

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6498	36866	A	6548	936	2064	ERADCLFKRKTNNQKGLHHRK PICTSPSSKTKSR*NHKDGEKTE QKNWKL*NAERLSSS/IRNAV HQQQNKAGWRMILTS*EKKAS DDQITLSYGRTFKPK/DKEVENF EKNLEECITRITNTEKCLKELME LKTARELHEECRSLRSRCDQL EERVSAMEDEMNMKREGKFR EKRIKRNEQSLQEIWVYVVRPN LRLIGVPESDVENGTKLENTLQ DIIQENFPNLRQANVQIQEIQR TPQRYSSRRATPRHIIVRFTKVE MKEKMLRAAREKGQVTLKGG PIRLTADLSAETLQARREWGPIF NILKEKNFQPKISYPAKLSFISEG EIKYFIDKQMLRDFVTTTRPALK ELLKEELNMERNNRYQPLQNH
6499	36867	A	6549	1	767	MAGAPPPASLPCLILDCCASN QRDSVGVGPSEPGVGYSLVVR RFLSRSEKRNIRVGVTFRSSEM NPVPQMEMQKSPSSASLTLGA VDRSCSYSAILAPPLGFCFYPLY ENSTLQSAKKRDAELANGALGI IELNNDYTLKKVMKPLITSNTV TDEIERANVFKMNGKWYLFDT SRGSKMTIDGINSNDIYMLGY/D IKLFNRPLQAAEQNRACAANGS *SKRCDIHLSSLRSAASQRQQC GYHKLHDKQRLLRG
6500	36868	B	6550	50	327	
6501	36869	A	6551	333	1301	FLHFHLRNAVPHQQWKNKAGW RMTLRS*EKKASDDQITLSYGR TFKPK/DKEVENFEQNLEECITR ITNTEKCLKELMELKTKARELR EECRSLRSRCDQLEERISVMED EMNMKREGKFRKRIKRNEQ SLQEIWVYVVRPNLRLIGVPES DGENGTKLENTLQHIIQENFPN LARQANVQIQEIQRTPQRYSSRI AIPRHIIVRFTKVEMKEKMLRA AREKGRVTLKGGKPIRLTADLSA ETLQARREWGPIFNILKENNFQ PRISYPAKLSFISEEEIKYLTDKQ MVRDFVTTTRPALKELLKEALN MERNNRYQLLQNHAKF
6502	36870	A	6552	352	2304	
6503	36871	A	6553	1	1617	

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6504	36872	A	6554	1	257	MGPIHKISHYVYANISKSEKVL KSEHFRSQAQFPQQQSETVSEK KKKTRKKRKKRKKRKKKKK KKKKKKKKKKKKKKKKKKKKK SE*DRLGKKKEDEEEEEEEEEEE EEEEEEEEEEEEEEEEEEEEEE EEEEEEEEEEEEEEEEEEEEEEI
6505	36873	A	6555	5	156	RKKGGG/EREEEGEGEEEEEE EEEEEEEEEEEEEEEEEEVVL LTPGTGAEDFKKH
6506	36874	A	6556	1	279	
6507	36875	A	6557	3	120	TEEEEEEEEEEEEEEEEEEE EEEEEEEEEEEEEGEEEEEEEE
6508	36876	A	6558	3	123	
6509	36877	A	6559	239	432	CLWLFQEEEEEEEEEEED*EEE EEE/EEEEEEEEEEEEEEEEEE EEEEEEEEEEKIFLGHVRGI
6510	36878	A	6560	1	588	
6511	36879	A	6561	1	204	
6512	36880	A	6562	75	234	
6513	36881	B	6563	100	2510	
6514	36882	A	6564	47	4976	
6515	36883	A	6565	3	4755	SCRCRRRRRGAPAMAQILPVR FQEHFQLQNLGINPANIGFSTLT MESDKFICIREKVGEQAQVTIID MSDPMAPIRRPISAESAIMPAS KVIALKAGKTLQIFNIEMKSKM KAHTMAEEVIFWKVSVNTV ALVTETA VYHWSMEGDSQPM KMFRHTSLVGCQVIHYRTDE YQKWLLLVGISAQQNRVVG MQLYSVDRKVSQPIEGHAAAF AEFKMEGNAKPATLFCFAVRN PTGGKLHIIEVGQPAAGNQ
6516	36884	B	6566	47	482	
6517	36885	A	6567	1	555	MNARPHKVD/GRVVEPKRAV* EDSQRPAFVAGIKEDTEHHLR DYFQQYGKMEVIEIMTDRGSG KKRGFAFVTFDNHDSVDKTVV QKYHTANDHNCEGRKALSKQE MASASSSQRGHSSSGNFRGGHG GGFGCNDIFGYGENFSGHGGFS GSCGGGGYGSSGGGYNEFGND GSNTGGGGSYNDFGN
6518	36886	A	6568	1	645	

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6519	36887	A	6569	2	944	GRGLRKLFIGGLSF*FIDESLKS QVGEWGTLTDCVVMRDPNTK RSRGFGFVTYAT\VEEVDAAMN ARPHKVDGRVVEPKRAVSRED SQRPGAHI/TLVKKIFVGGIKED TEEHHLRDYFEQYGKIEVIEIMT DRGSGKKRGFA\FVTFFDDHDSV DKIVIQKYHTVNGHNCEVRKA LSKQEMASASSSQRGRSGSGNF GGGRGGGFGGNDNFGRGGNFS GRGGFGGSRGGGGYGGSGDGY NGFGNDGSNFGGGGSYNDFGN YNNQASNFPGPMKGGNFGRSS GPYG\GGGQYFAKPR\NQGGY GGSSSSSYGSGRRF
6520	36888	A	6570	1	1512	
6521	36889	A	6571	2864	3677	RCQLDHLPCHLCCCCHR/CIPSL RDPQAPGSTRLSRAPHIESRV GRKPPEEPANPTMNSLTLRDKQ /HDASTC/DWKRAL*VPESGLPR ALLKYIRCPNMSSAQKPRELSK RRN*K*PCVKRTPFRPT*/DLP YSGKKTGVKGLICPVPGTAVK APQRPPGPQQPHAPQSASETA WFPVADRRVFSENPGWTA AKT LGTLSGPCQAGAGVGRQDGD GQELTSQEKPWVGRKIPHAV ADKGYRQQCGAGEARGGPVF WAAAPRTSWQQASYT
6522	36890	A	6572	1	666	
6523	36891	A	6573	2926	3304	EYSLGHRHYNWKC*ALGQKDQ VTFATKFAPTSRTRKQPELWR /QDPGSYGEKQPAWCSVPPGRF SGLLVGLGFLDGGIVVQPLRRP CCQDCVCGFPTLRSSSTKTSTEL GPSFLPCRQGGKETISVT
6524	36892	A	6574	1	665	

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6525	36893	A	6575	3	1121	SSTFPRMPWRLVTSWTAYIPEL EGSTSDPDSPAQAQKGEKPVKL GNSLWGSHTPEVPRPGTGPRPL SFVHRLPTMDPHKVNALRAFV KMCKQDLSVLHTKEMHFLRE WVESMGGKLSPATQKVKSEEN TKEEKPDSSKKVEEDLKADEPSS EESNLLIDNEDVIEPDPDAPQEM GDENAEITEEMMDQANHKKVA AIEALNDGELQKAIDLFTDAIKL NPQLAILYAKRASVFIKLQKPN AAIRDCDRAVEIYSAQPYKWR/ GKYEQKREEREIKERIERVKA REEQERAQREEEARGQSV AQY GSFPDGLPGGMLEMRGGMMPGK PGITGLNEIFSDPEVLAAVQDPK VMV/AFFQDVAQN PANMSQYQ GNPKVM
6526	36894	A	6576	3	1351	PEAGGERERERAQREEDSTRQS RAQYGSFTGGFPGGM PGNFPG GMPGMGGPSARSRAQRLSLE PDRSPPSYAHHLPTMDPRRVNE LRAFEKMCKQDPSVLHTEEMR FLARECVESMCGKVPPATHKAM SEENTTEEKPDSEKAEEDLQAD EPSSEESDLRKLKEGVIEPDTD APQEMGDENAEIPEE\MMDQA NDKKVAAIEALNDGELQKAIDL FTDAIKLNPRLAILYAKRASV VKLQKPNAAIRDCDRAIEINPD SAQPYKWRGKAHRL LGHWEE AAHDLALACKLDYDEDASAML KEVQPRAQKIAEHRRKYERKR EEREIKERIERVKKAREEHERA QREEEARRQSGAQYGSFPGGFP GGMPGNFPGGM PGMGGMPG MAGMPGLNEILSDPEVLAA MQ DPEVMVAFQDVAQN PANMSK YQSNPKVMNLISKLSAKFGGQ
6527	36895	A	6577	2	433	GPPLNLSSPRGGILKTYGCELGG KRFLDSLRLRMHLLAHSAGAK AFVCDQCGAQFSKEDALETHR QTHGTDMAVFCLLCGRFQA QSVALQQHMEVHAGVRSYICSE CNRTFPSHTALKRHLRSHTGDH PYECEFCGSCFRDE
6528	36896	A	6578	1	687	
6529	36897	A	6579	2	449	

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6530	36898	A	6580	852	1084	TDAGCYAARQCGTAVPSRDV HIRHQGTPVPQF*TAPLRARS/E VSPARRRARM LSSSASFASANIT TSSAWSDTLQP
6531	36899	A	6581	1	681	
6532	36900	A	6582	1	483	
6533	36901	A	6583	1	273	TRGPWCDSVLRGCSLEQRSFIS VRLLSYLSACRHPMEDSMDMD MSPLRPQNYLFGSLGAGAKDE LHIVEAEAMNYEGSPIKVTLAT LKMS
6534	36902	A	6584	1	678	
6535	36903	A	6585	3	634	
6536	36904	A	6586	4	479	CSAKTAIRGVSECLIIHHGIPHS TASDQGTHFTAKEVWQWAYA HGIHWSYHVLHHPEEA/GKER WNGLLKSQLQCQLGDNTLQG* GKVLQQA VYVLN*HPIYGT VSP IARIH/GSRNQG/VETELTPLTITP SDPLAKFLLPVPPTLHSAGLEIL VPEGEIR
6537	36905	A	6587	1	1539	MVGKAKWKPLELPLPRKMVSQ KQYRILGGTAEISVTIKDLKDA RVVIPSTSPFYSPIWPVQKIDGS WRMTEDYRKLNQVVTPTAAA VPDVVSLLEQINTSPGTRYAAID LTNAFFSIPFKAHQKLFASW QGQYTFVLPWGDINSPALCH NLIRDPDCFSLPQDITLVHHID DIMLTGSREQEVADTRDFLVKD KLLHLAPPTTKKQAQHLVGLF GFWRQHIPP LLGVLLQPIYRVTQ KVASFEWSQEKTALQQVQAA VQAVLPLGPYNPADPMVLEVS VADRDAVCSLWQAPIGESQWR PLGFWSKALPSSADNYS PFERQ LLA/CHKVGHAAQQHSISKWK*Y IHDRAQADYHPWTQACLIHCQ GIPHSIASDKDAHFTTKEVWQW THAHEIHWCYHVLHHPEAAGL TERWNRLLKSQLQRQLGDNTL QSGKVLQKAMYALNQHPYIG TISPIARIHGSSNQGV EAPLTIT PSDPLAKFLLCVPTTLRSAGLD VLVPEGGMTQQQFH

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
6538	36906	A	6588	1	566	MGRNQSRKAENSKNWSASSPP KDHSSLPAMEQSWMENDEFDEF TEVGFRRSVITNFSELKEHVLT YCKEAKNVEKRIYRSRNQGM EVKVAPLTITPSDPLANFFAS VPATLHSAGLEVLVPEGGTL PLGDDTMIPLNWKRLRLRT GYFGLLLRLSQQAKKGAM VLA/GVVDPDYQNEISLLL HN*GKTHDH
6539	36907	A	6589	221	357	
6540	36908	C	6590	228	342	
6541	36909	A	6591	745	849	
6542	36910	A	6592	1	240	
6543	36911	A	6593	2	495	FVRLVGRGDCDPLLSVCLT TMPLYEGLGSGGEKTA VVIDLGEAFTKCGFAGET GPRCIIPSGIKRAGMPK PVRVVQYNINTEELYSYL KEFIHILYFRHLALVNPR DRRVVVIIESVLCPSH FREDTHSCFFFKYFEV PSVLLAPSHLMALLTLGI NSWHGPRL
6544	36912	A	6594	1	579	
6545	36913	A	6595	1	621	
6546	36914	A	6596	1	351	
6547	36915	A	6597	1	447	
6548	36916	A	6598	114	880	
6549	36917	A	6599	1	2625	
6550	36918	A	6600	1	1674	
6551	36919	A	6601	1035	2235	QTHSQYHTEWAKTGSIPFENW HKTGIPSLTTPIQHSVGS SGQGNQAGEGNKGYSIRK RGSQIVPVCRRHD/VYI* KTPLSQPEISLS**A TSAKS/LGYKINVQKSQA FLYTNNRQTESQIMSELP FTIASKRIKYLGIQLTRD VKDLFKENYKPLLKEIK EDTNKWKNI PCSWVGRIN IVKMAILPKVIYRFNAIPI KLPM PFFTELEKTTLKFI WNQKRARITKSILSQKNK AGGITLPDFKLYYKATV TKTAWYWYQNRDIDQW NRTEPSEITPHIYNYLIFD KPEKNKQWGKDSL FNKWC WENWLAICRKLKLDPFL TPYTKMNSRWIKDLNVR PKTIKTLEENLGITIQD IGMGKDFMSKTPKAMATK AKIDKWDLIKLSFCTAKET TIRVNRQPTK

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
6552	36920	A	6602	369	1917	AGE G N K G Y S I R K R G S Q I V P V C R R H D / V Y I * K T P L S Q P K I S L S ** A T S A K S / L G Y K I N V Q K S Q T F L Y T N N R Q T E S Q I M S E L P F T I A S K K I K Y L G I Q H T R D V K D L F K E N Y K P L L K E I K E D T N K W K N I P C S W V G R I N I V K M A I L P K V I Y R F N A I P I K L P M T F F T E L E K T T S K F I W N Q K R A R I T K S I L S Q K N K A G G I T L P D F K L Y Y K A T V T K T A W Y L Y Q N R D I D Q W N R T E P S E M T P H T Y N Y L I F D K P E K N K Q W G K D S L F N K W C W E N W L A I C R K L K L D P F L T P Y T K I N S R W I K D L N V R P K T I K T L E E N L G I T I Q D I G M G K D F M S K T P K A M A T K D K I D K W D L I K L K S F C T A K E T T I R V N R Q P K K W E K I F A T Y S S D K G L I S R I Y N E L K Q I Y K K K T N N P I K K W A K D M N R H F S K E D I Y A A K K H M K K C S S S L A I R E M Q I K T T M R Y H L T P V R M A I I Q K S G N N R C W R G C G E I G T L L H C W W D C K L V Q H I L T H R W E L N N E I T W T Q E G E Y H T L G T V V G W G E G G G I A L G D I P N A R
6553	36921	A	6603	1	2781	

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6554	36922	A	6604	1320	2403	LQTLQVYSNQNSMVLVVKQR YRSMEQNRA LRNNATY LQLSD L*QT*EKQAMGKGFP I**MVLG KLASHM*KAETGSLPYTLYKN QFKMD*RLKR*T*NSKKQSPSP PPKERSSSPATEQSWTENDFDE LREEGFRRSNYPELRREDIQTGK KEEIQT TIREYYKHLYANKLEN LEEMDKFLNTYTLPRLNQEEVE SLNRPITGSEIVAVINSLPTKKSP GPDGFTA EFHQRYKVELVPFL KLFQSIEKEGILPNSFYEASIIIP KPGRDTIKKENFRPISLTNIDAKI LNKILANRIQQHIKKLIHYDQV GFIPGMQDWFNIRKSINVIQHIN RTKVKNHMIISIDAEKAFDKIQ QRFMLKTLNKL AQNLLKLISNF SKVSGYKINVQKSQAFLYTNNR QTESQIMSELPFTIASKRIKYLGI QLTRDVKDLFKENYKPLLKEIK EDTNKWKNIPCSWVGRLNIVK MAILPKVIYRFNAIPIKLPMTFF TELEKTTVKFIWNQKRACITKSI LSQKNKAGGITLPDFKLYYKST VTKTAWY WYQNRDIDQWNRT EPSEIMPHIYNLIFDKPEKNKQ WGKDSL FNKWCWENWLAICR KLKLDPFLTPYTKINSRWIKDL NVRPKTIKTLEENLGITIQDIGV DKDFMTKTPKAMATKPKIDKW DLIKLKSFCTAKETTIRAFDELD DVHPHEEIEACRVWQNYGTHP
6555	36923	A	6605	2202	2515	KSLQCEHSSHIQDLPLACLGLR KHYMVAQYL*HSHS/ASGGGSR YDVLKISVSCSSTIDI*LAFVSLG *DKRTS**TNLAESSPNFFHWV WIFLASKKFCVSPAR
6556	36924	A	6606	1934	2077	AIPFRIQAWARTSCP KHKKQWQ QKPKLTNGI*FN*RASAQQKKL PSE
6557	36925	B	6607	1	2325	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
6558	36926	A	6608	1524	2877	IRKRGSIQVPCRRHD/VFV*KT PSSQPKISLS**ATSAKS/LGYKI NVQKSQAFLYTNNRQTESQIMS ELPFTIASKRIKYLGIQLTRDVK DLFKENYKPLLKEIKEDTNKW KNIPCSWVGRINIVKMAILPKVI YRFNAIPIKLPMTFFTELEKTTL KFIWNQKRARIASILSQKNKA GGITLPDFKLYYKATVTKTAW YWYQNRDIDQCNRTPESEIMPH IYNYLIFDKPERNKQWGKDSLF NKWCWENWLAICRKLKLDPFL TPYTKINSRWIKDLNVRPKTIKT LEENLGITIQDIGVGKDFMSKTP KAMATKDKIDKWDLIKLSFC TAKETTIRVNRQPTTWEKIFAT YSSDKGLISRIYNELKQIYKKKT NNPIKKWAKDMNRHFSKEDIY AAKKHMKKCSSLAIRERQIKT TMRYHLTPVRMAIIKKSGNNR DMDEIGNHHSQ
6559	36927	A	6609	1	2226	
6560	36928	A	6610	1	674	MGKKQNRKTGNSKTQSASPPP KERSSSPATEQSWMENDFDEL EEGFRRSNYSELREDIQTGKE VQNFENLEECITRITNTEKCLK ELMELKTKARELREECRLRSR CDQLEERVSADEMNEMKRE GKFREKRIKRNEQSLQEIWYV KRPNLRLIGVPESDVENGTKLE NTLQDIIQEN/CPQSSKAGQRSD SGNTENATKILLEKSNSKTHNC QIHQS
6561	36929	B	6611	1	5175	
6562	36930	A	6612	1666	2032	LQTIQGYSNQNSMVLVLPKQR YRSMEQNRALRNATYQLSD L*QT*EKQAMGKGFPI**MVLG KLASHM*KAETGSLPYTLYKN QFKMD*RLKH*T*NHKNPRRKP RHYHSGHRHGQGLHV
6563	36931	A	6613	1596	2169	AGEGNKGYSIRKRGSIQVPCR *HD/VYI*KTPLSQPKISLS**ATS AKS/LGYKINVQKSQAFLYTNN RQTESQIMSELPFTIASKRIYL GIQLTRDVKDLFKENYKPLLKE IKEDTNKWKNIPCSWVGRINIM KMAILPKVIYRFNAIPIKLPMTF FTELEKTKVHMEPKKCPHHQG NPKPKEQSWRHHTT

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
6564	36932	A	6614	1667	3103	AGEGNKGYISIRKRGSIQIVPCR *HD/VYI*KTPLSQPKISLS**ATS AKS/LGYKINVQKSQAFLYTNN RQTERQIMSELPFTIASKRIKYL GIQLTRDVKDLFKENYKPLLQE IKEDTSKWKNVPCSWVGRINIV KMAILPKVIYRFNAIPIKLPMFP FTELEKTILKFIWDQKRARIAKS ILRQKNKAGGITLPDFKLYYKA TVTKTAWYWYQNRDIDQCNR TEPSEITPHIYNLIFDKPEKNK QWGKDSL FNKWCWENWLAIC RKLKLDPFLTPYTKINSRWIKD LNIRPKTIKLEENLGITIQDIGM GKDFMSKTPKAMATNAKIDK WDLIKLSFRTAKETTIRVNRQ PTKWQKIFATYSSDKGLMSRIY NELKQIYKKKTNNPIKKWAED MNRHFSKEDIYAAKHKMKCS SSLAIREMQIKTTMRYHLTPVR MAIIKKS GNNRLTLLNNHNNPQ PLISIKEPREKEELNLQV
6565	36933	A	6615	3134	3288	
6566	36934	A	6616	1	2630	
6567	36935	B	6617	877	7936	
6568	36936	A	6618	2	1589	
6569	36937	A	6619	1	240	
6570	36938	A	6620	200	486	
6571	36939	A	6621	1	558	
6572	36940	A	6622	1	3885	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
6573	36941	A	6623	1	2302	KLPVTNRAAHGLCASLGPDFM TFKVPSSWRHSDSICREWFTLA GAPSRDVLLVSAIITVLSVTVV LCGLCHWCQRKL GKRYKNSLE TVGTPDSGRGRSEKKAIVSRP CPPPAKASATHPTCKSPRSQEK VESPGDLDRDFWNNNESTVQQ KWSSYPPKEFILNISPYAPYGDP RLSLNGTLLSGAKVAAAAGLA VEREGRLEKPAVPVPPGEDAL RSGGAAPSEPGSGGKAGRGRW RTVQSHLAAGKLNLSNFEDSTL STATTLESIPSTGEPKCQRPR LMRQQSLQQPLSQHQRGRQPS QPTTSQSLGQLQAHMASAPGP NPRA YGRGQARQGT SAGSKYR AAGGRSRNPGSWDHVVGQIR NRGLDMKSFLTTSRAAKWNF TNSETVPALDLD S AVVLIPWISS KEDTGDSHYGRVAIYHKGLSFS SDGLVYPGAKGREGRMVVLSL VLGLSEQDDFANIPDLQNPQTQ QNQNAQGDKRLPAGGKAVNT APVPGQTPHDESDRRTEPRSSV SDLVNSLTSEMLMEDWPPAVF SSGWAIATAHPASLHSPLIGYSF LAARGGLLLFEADFCWCKRSG STFPDCDGVANLAATEMALSQ LRFSKETAMRESLVMLSPGSEE DEAHEGCSREN LGRIQFSVGYN FQUESTLTLKIMKAQELPAKDFS GTSDPFVKIYLLPDKKHKLKTK
6574	36942	A	6624	1	576	
6575	36943	A	6625	1	155	
6576	36944	A	6626	4746	5258	DAGAQPSLPYLIYHQPSRFFRI TSTVTPFSKPISSLLWLV*/GLHG DILL/RLLQS*RC*CRSHPEYHSG PPGRWQGSPAPQKCSRTTSRS RSSR*HPPPPRPGGSAPSSPASYS WTPPRTVPGSWARRWRRHLSR PSWATQPSWTATLWSQPLWRL KWEDCLSPGRSRLQ
6577	36945	A	6627	1	588	

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6578	36946	A	6628	444	1056	GPLLREPHQLCHFPVAGFVLDA GLPEAAAAPHDRGPELAGPQA AGQHPAQVAHQPRAAAQQRQ GRRAREEAGAQAQEEPRGPQE RRRRLAEGLRRCQGHAPGRDG RGGYRRAAQGPARGGRTPEWQ QSGGARRTPSVGHPRRARADW CLTGANDALSCSSPTCGKFLKT VSKVPVCRRGLAVNRKEAAGR SSESPTSSATFQSPALSWMLVS QRLLPHMIGAQSSPGPKRPGN TLRKWLTSPVRRLLSSGKADGH VKKLAHKHKSREVRKSADAG SQKDSDDSAATPQDETVEEDTV AQPRGRREGAGRQSGSRAAGP GGRRASAIRGGHARTDVGKRN GTRTRKELMPLHGKRKDAAEH DEPTSASRPAGERPELTAAVQ TEYNCSFPS
6579	36947	A	6629	128	1103	
6580	36948	A	6630	1	602	
6581	36949	A	6631	3	1618	
6582	36950	A	6632	1	602	
6583	36951	A	6633	3	1618	
6584	36952	A	6634	1	912	
6585	36953	A	6635	195	396	VLPLHRQI**LLH*SKKHNNHYK GKQQDLR/CSSTVPRRPQGILPII SFSNVPVGSRRLLKAPLVFIGPG

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6586	36954	A	6636	2	1813	FNTPLSTLDRSSRQKVNKDIQD VISALHEAGLIDIYRTLHPKSTE YTFFSAPHHTYYKIDHIVGSKA LLSKCKRTEITTNCLSDDRAIKL ELRIKKLTQNYTTTWKLNNLLL SDYWVNNEMKAEIKMFFETNE NKDTMYQNLWDTFKA VCRGK FIAVNAYKRKQERSKIHTLTSQ LKEPEKQEQTTHSKASRRQEITKI RAELKEIDTQKTLQKISVSRSW FSERINKIDRLIARLMKKKREK NQIDAIKNDKGDITIDPTMQTT IREYYKNLYANKLENLEEMDK FLDTYILPRLNQEEVELPNRPIT GSENEAIINSLP/TKKSPGPDEFT AKFYQRYKGLARAIRQEKERE DTQLGKEEVKLLLFAEDMIVYL ENPIVSAQNLLKLNNFSKVSGY KINVQKSQAFLHTNNRQTESI MSECPLTIASKRIKYLGIQLTRD VKDLFKENYKPLLNKIKEDTN KWKNIPRSWLGRNNIVKMTILP KVI/YKKTTLNFIWNQERARIAK TILSKKNKAGGITLPDFKLYYK ATVTKTARYWTLTIKKGSVWPI SLKSEKRGHRTPLWKLCHND VQGELLKTIQFLFGSPLGHSSLD
6587	36955	A	6637	1	2988	MPPHSEQPHSPSTRQKRKVPLF VRQCPSFVIQAPKAKMDTFDGR KKQFTRFLFLFSMDQLGQGRFS MQTLSFALAVYRKDSPLVACQ VQALGNLEPSSVEAHVSSHGIAI DRKGWHVSLFSIQPGDCFPKAL VEDSPDRARRQSSKEEGWC RDRRLKFHSHKKGAAAI VVKS KKYESPSFGVCFESLLNPPRLTS RREKTISSSKRCRQCHAEETTV VFWAKESQTGEQTGRGAGQRR MGMIICKACSM LPAE
6588	36956	B	6638	362	1463	
6589	36957	A	6639	1	1061	
6590	36958	A	6640	1	1581	

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6591	36959	A	6641	46	862	AAFPAPRTLFFLSRPLRPTACAA FRPEFWRLNMKLPARVFFTLGS RLPCGLAPRRFFSYGKILYQN TEALQSKFFSPLQKAMLPNSF QGKVAFITGGGTGLGKGMTTL LSSLGAQCVIASRKMDVLKAT AEQISSQTGNKVHAIQCNVKYP DMVQNTVSELIKVQGH PSTVIT N*STERSSISFLLPTIYA*DWFRF CSTQVLLPKQVWKPMSKSLAA EWGKIWNAIQC
6592	36960	A	6642	1	2902	MVKGSLQQEELTILNIYAPNTE APRFIKQVLRDLQRDLDSHTLI MGDFNTPLSTLDRSTRQKINKD TQELNSALYQADLIDIYGT LHP KST\EYTF\ SAPHHTYSQN WTT IVGSKALLSEHKRTEIIT\NYLSD \HSA\IKLELRIK\LTQNR SATW KLNNLLNDYVWHNDMKA EI KMFFETK\ENK\DTTYQNLWDT FKAVCRGKFI AK\NAHN RKQE\ RSKIDTLTSQLKELEKKEQTYL KASRRQEIT
6593	36961	A	6643	1	5127	
6594	36962	B	6644	1	3570	
6595	36963	A	6645	1	3663	
6596	36964	B	6646	143	3122	
6597	36965	A	6647	1	3235	
6598	36966	A	6648	1	3249	
6599	36967	A	6649	1	3297	

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6600	36968	A	6650	1	2563	MKAEIKMFFETNENKDTTNQN LWDAFKAEVESLNRPTGAEI GAIINSLPTKKSPGPDGFTAEFY QRYKEELVPFLKLQFQSEKEEI LPNSFYEASIIIPKPGRDTTKKE NFRPISLMNIDAKILNKILANRI QQHIKKLIHHDQVGFFPGMQG WFNIRKSINVIQHINRAKDKNH MIISIDAEKAFDKIQPFMLKTL NKLGDGTYFKIIRAIYDKPTAN IILNGQKLEAFPLKTGTRQGCPL SPLLFNILLEVLARAIRQEKEIK GIQLGKEEVKLSLFADDMIVYL ENPIVSAQNLLKLISNFSKVSGY KINVQKSQAFLYTSNRQTESQI MSELPFTIASKRIKYLGIQLTRD VKDLFKENYKPLLKEIKEDTNK WKNIPCSWVGRINIVKMAILPK VIYRFNAIPIKLPMFTFFTELEKTT LKFIWNQKRAHITSILSQKNK AGGITLPDFKLYYKATVTKTA WYCYQNRDIDQWNRTEPSEITP HTYNYLIFDKPEKNKQWGKDS LFNKWCWENWLAIWRKLKLD PFLTPYTKINSRWIKDLNVRPKT IKTLEENLGITIQDIGMGKDFMS RTPKAMATKAKIDKWDLIKLK SFCTAKETTIRVNRQPTTWEEKIF ATYSSDKGLISRIYNELKQIYKK KTNNPIKKWEKDMNRHFSKED IYAAKKHMKKCSSLAIEMQI KTTMRYHLTPVRMAIHKSGNN
6601	36969	A	6651	1	3402	
6602	36970	A	6652	1	3288	
6603	36971	A	6653	1	3168	
6604	36972	A	6654	1	3516	
6605	36973	A	6655	1	3693	

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6606	36974	A	6656	1577	3354	TEPKTKTT*LSQ*MQKRPLTKF NNLSC*KLSIN/IVLEVLRARIRQ EKEIKGIQLGKEEVKLSLFADD MIVYLENPIVSAQNLLKLISNFS KVSGYKINVQKSQAFLYTNNR QTESQIMSELPFTIASKRIKYLGI QLTRDVKDLFKENYKPLLKEIK EDTNKWKNIPCSWVGRINIVK MAILPKVIYRFNAIPIKLPMTFF TELGKTALKFIWNQKRARITKSI LSQKNKAGGITLPDFQLYCKAT VTKTAWFPGSDVGLEADFSFSH TLKTQFFSCLAEFAAASCFFQR MNGFGMAMTTTSTGAAESPL PSCSIDQGDDTKLHRARSPGRT FPAAAGIPAAAAPDGPPLSLH KLWFPVELGGRALPRAEESHGE VAALGVMVVAQGGKNQGEEA RSTPWLRPTSHLPPCSSSSAWW TEQTDHPLFLCLGIYLLNA LSNLSMVALVRSDGALRSPMY YFLGHLSLVDVCFTTVTPRLL AGLLHPGQAISFQACFAEMYFF VALGITESYLPAAMSYDRATAA CRPLRYGALVTPWALRLAARY DRLASVVYAVITPTLNPFINSLR NKEVKGALKRGLRWRAAPQE
6607	36975	A	6657	1	3514	MELKTKARELREECRLSRSCD QLEERVSAMEDEMNMKREG KFREKRIKRNEQSLQEWDYVK RPNLRLIGVPESDVENGTKLEN TLQDIIQENFPNLARQANIQIEI QRTPQRYSLRRATPRHIVRFTK VEMKEKMLRAAREKDRSTRQK VNKDTQELNSALHQADLIDIYR TLHPKSTEYTFFSAPHHTYSKT DHIVGSKALLSKCKRTEIITNYL SDHSAIKLELRIKNLTKSRSTTW KLNNLLNDYW
6608	36976	A	6658	3	3316	
6609	36977	A	6659	1	4794	
6610	36978	A	6660	1	3570	
6611	36979	B	6661	1	3384	
6612	36980	A	6662	1	3429	
6613	36981	A	6663	1	3780	
6614	36982	A	6664	1	3894	

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6615	36983	A	6665	1	3335	MVKGSIQQEELTILNIYAPNTG APRFIKQVLSLDLQRDLDSHTLI MGDFNTPLSTLDRSTRQKVNK DTQELNSALHQADLIDIYRTLH PKSTEYTFFSAPHHTYSKIDHIV GSKALLSKCKRTEIITNYLS DHS AIKLELRINKLTQSRSTTWKLN NLLLNDYWVHNEMKAEIKMFF ETNENKDTTYQNLWDAFKAVC RGKFIALNVYKRKQERSKIDTL TSQLELEKQEQTTHSKASRRQE ITKIRAELEKETQ
6616	36984	B	6666	1	3145	
6617	36985	A	6667	1	4398	
6618	36986	A	6668	523	3852	
6619	36987	A	6669	1	3934	MGKKQNRKTGNSKTQSASPPP KERSSSPATEQSWMENDFDEL R EEGFRRSNYSELWEDIQTKGKE VENFEKNLEECITRITNTEKCLK ELMELKTKARELHEECRSLRSR CDQLEERVSA MEDEMNMKRE GKFREKRIKRNEQSLQEIW DYV KRPNLRLIGVPESDVENGTKLE NTLQDIIQENFPNLARQANVQI QEIQRMPPQRYSSRRATPRHIIVR FTKVEMKEKMLRAARQKAPH HTYSKIDHIVGSKAL
6620	36988	B	6670	1	5215	
6621	36989	A	6671	1	7171	
6622	36990	A	6672	3	493	
6623	36991	A	6673	1	729	
6624	36992	A	6674	3	800	
6625	36993	A	6675	1	327	
6626	36994	A	6676	2	462	KSSWLEEDDDPVVARVNRRMQ HITGLTVKTAELLQVANYGVG GQYEPHFDFSRRPFDSGLKTEG NRLATFLNYMSDVEAGGATVF PDLGAAIWPKKGTA VFWYNLL RTGEGDYRTRHAACPVLVGCK WVSNKW F HESIGQEFLRPCGST EVD

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6627	36995	A	6677	3	717	RHRLRNRLKDVGGAEFYPLLE DDQSNLPHSNSNNELSAATLP LIIREKDTEYQLNRILFDRLLKA YPYKKNQIWREARVDIPPLIRG LTWAALLGVEGAHAKYDAID KDTPIPTDRT/QLKWDIPRCHSV R*TVIHAPEGHAKFRRVLKVAW VVSHPDLVYWQGLDSLCAFL YLNFNNEALVYACMSAFIPKYL YNFFLKDNSHVIQEYLTVFSQM IAFHDPELSNHLNEIGFIPD
6628	36996	A	6678	1	508	
6629	36997	A	6679	1	888	
6630	36998	A	6680	2	584	
6631	36999	A	6681	2	152	QVAKGMDALLQHLEDCGYR/S SKKKAQICRQQVTKWGDGSAL MGTSTTASL
6632	37000	A	6682	733	894	
6633	37001	B	6683	1	1626	
6634	37002	A	6684	1	1971	MAQVWANDNPPGLAVNQAPV LIDVKPGAQPIRQKQYPVPREA LKGIQPGTKDYQPVDLRLVN QATVTLHPTVPNPYTLGLLLA EDSWFTCLDLKDAFFSIRLAPES QKLFAFQWEDPQSDLGICILLY VDDLLLGHSTAVECAKGMDVL LQHLEDCRYKMSKKKAHICRQ QVRYLGFTIRKGER\SWEREKM AVGVLTQTVGPWPRPVAYLSK QLD/EVSKGWPLCLRTLAATAL LAQEADKLTGQNLNIKAPHA VVTLMTTEGHHWLTNARLTKY QSLPCENPHITIEVCNTLNPTTL LPVSESPGEHNCVEVLDSVYSS RPDLRDQPWASSVDWELYMD GSSFINSQGERCAGYAVVTLDA VIKAKLWLQGTSAQKAELIALT RAVELSEGQESLEELLGRYFYV SHLPFAKAVAQLCITCRQHNA RQSPTVSPHIQAYGAAPFEDLQ VDFTEMPKCGGNKYLLVLTCT YSGWVEAYPTRTEKPYKKGKN DPSCTKGQCNPTELVTNPLNP HWKKGERVTLGIDRARLDPRV NILVRGGEVYERSPEPVFQTFY DELNVPVPEIPGKTRNLFLQLA ECVAQPLNVTSCYVCGGTVTG YQWPWKARELVPDVPDEFLL AQKNYPDNFVWLKPSITGQYCI
6635	37003	A	6685	1	1461	
6636	37004	A	6686	1	1005	

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6637	37005	A	6687	1	174	
6638	37006	A	6688	519	588	
6639	37007	A	6689	2	4527	GRAGLGWSSGGRGSRACSEGP AEARGREGDKGSAALSPPLPLT LGEEMAAERGARRLLSTPSFWL YCLLLLGRRAPGAAAARSGSAP QSPGASIRTFTPFYFLVEPVDTL SVRGSSVILNCSAYSESPKIEW KKDGTFLNLVSDRRQLLPDGS LFISNVVHSKHNPDEGYQCV ATVESLGTIISRTAKLIVAGLPR FTSQPEPSSVYAGNNAILNCEV NADLVPPFVRWEQNRQPLLLDD RVIKLPSGMLVI
6640	37008	A	6690	1	879	
6641	37009	A	6691	407	594	
6642	37010	A	6692	1	3621	
6643	37011	B	6693	1	609	
6644	37012	B	6694	1335	1599	
6645	37013	A	6695	1	354	
6646	37014	A	6696	181	683	SRYFILLRKPTFPAMALLPVLFL VTVLLPSLPAEGKDPAFTALLT TQLQVQREIVNKHNELRKA VSP PASNMLKMEWSREVT TNAQR WANK/CTLQHSDPEDRKTSTRC GENLYMSSDPTSWSSAIQSWY DEILDFVYGVGPKS/PQYCPAG NNMNRKNTPYQQGTPCPG
6647	37015	A	6697	199	969	
6648	37016	A	6698	1	564	
6649	37017	A	6699	153	427	
6650	37018	A	6700	1	978	
6651	37019	A	6701	3	419	
6652	37020	A	6702	9	255	VRAPAQGPDLAGRRRCGSGA SCTPSPRGPASWSR SAAQVPRS SRWRAGSASS*N/GRQPAPPTSQ PPRAQPFAPPGPWPLS
6653	37021	B	6703	96	283	
6654	37022	A	6704	172	365	PTYHLYPCHF WYQHRTRRIPRK SERLFPTPPQLSWKGTWDY*I CLLCNDSEGRDFLVRVLK
6655	37023	A	6705	3	1171	
6656	37024	A	6706	2	740	
6657	37025	A	6707	256	461	
6658	37026	A	6708	1	414	
6659	37027	A	6709	1330	1386	YIDSILPK*NHDTLQSYCRYMH SRQRAAS*PLSTGKLQQCLGLD LVLC

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6660	37028	A	6710	207	1173	GGDRDRMTANHESYLLMASTQ NDMEDWVKSIRRVIGDLSGGG IFGQKLEDTVRYEKRYGNRLAP MLVEQCVD FIRQRGLKEEGLFR LPGQANLVKIELQDAFDCGEKP SFDSNTDVHTVASLLKLYLREL PEPVIPYAKYEDFLSCAKLLSKE EEAGVKELAKQVKSLPVVNYN LLKYICRFLDEVQSYSGVKNKMS VQNLATVFGPNILRPKVEDPLTI MEGTVVVQQLMSVMISKHDCL FPKDAELQSKPQDGVSNNEIQ KKATMGQLQNKENNNTKDSPS RQCSWDKSESP/TEKQHEQWIP HSSIRQQNQPKSEQWSQAI
6661	37029	A	6711	173	881	
6662	37030	A	6712	1605	1844	
6663	37031	B	6713	123	699	
6664	37032	A	6714	1	462	
6665	37033	A	6715	1	2607	
6666	37034	A	6716	1	918	
6667	37035	A	6717	1	549	
6668	37036	A	6718	1	687	
6669	37037	A	6719	1	258	
6670	37038	A	6720	90	1621	HGLDLRTMNRSRQVTCVAWV RCGVAKETPDKVELSKGGVKR LIAEAEKLQEEGGGSDEEKTG SPLEEG\MQSARTQARP\REPLEV DGD PED\DRTLDDDELA EYDLD KYDEEGDPDAETLG\ESLLGLT VYGSNDQDPYVTLKDTEQYER EDFLIKPSDNLIVCGRAEQDQC NLEVHVYNQEEDSFYVHH DILL SAYPLSVEWLNFDPS PDDSTGN YI AVGNMTPVIEVWDL DIVDSL EPVFTLGSKLSKKKKKKGKKSS SAEGHTDAVL DLSWNKLIRNV LASASADNTVILW DMSLGKPA ASLAVHTDKVQTLQFHPFEAQT LISGSYDKSVALYDCRSPDESH RMWRFGSQIERVTWNH FSPCH FLASTDDGFVYNLDARS DKPIF TLNAHNDEISGLDLSSQIKGCL VTASADKYVKIWDILGDRPSLV HSRDMKMGVLFCS SCDLPFI YAFGGQKEGLRVWDISTVSSV NEAFGRRLVLGSARNSSISGP FGSRSSDTPMES
6671	37039	A	6721	1	549	

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6672	37040	A	6722	1	1318	AKQQNLNRTHMADENKNEYA AQLQNFNGEQHKHFYVVIPQIY KQLQEMDERRTIKLSECYRGFA DSERKVIPIISKCLEGMILAAKS VDERRDSQMVVDSFKSGFEPPG DFPFEDYSQHIYRTISDGTISAS KQESGKMDAKTTVGKAKGKL WLFGKKPKPQSPPLTPTSLFTSS TPNGSQFLTFSIEPVHYCMNEIK TGKPRIPSFRLKRGWSVKMG/ AALEDFSHLPPEQRRKKLQQRI DELNRELQKESDQKDALNKMK DVYEKNPQMGPGLQPKLAE TMNNIDRLRMEIHKNEAWLSE VEGKTGGRGDRRHSSDINHLVT QGRESPEGSYTDDANQEVGRPP QQHGHNEFDDEFEDDDPLPAI GHCKAIYPFDGHNELTAMKE GEVLYIIEEDKGDGWTRARRQ NGEGYVPTSYIDVTLEKNSKG
6673	37041	A	6723	1	741	
6674	37042	A	6724	1	1063	MPFYISDLSICGDRILRALCPQD LPTYSLHSRGKMRASCSRKFLD NNSSRLVSCNMGALISIWGTTT PPLHATILDSQPTVHPPLAKDCL PCGLQASASDLRARALQRLCQ QLPWVGSQPHTRSPSPQRGGKT GLFAGLASSVSMRPASPPSPAA DSCSACRFFARRPPLRVTVWVKP SSALALCVSISDSIPGNLALPA ETRAQLHHAELASLSQPPLQLRP FPKTSQAGDLQDLGPYVCVRK AVGKGDKQIRAVVKEHSVRSQ ERIWHPGITTANMPGHLGQNT ESGRDKLPMFGVWFPGRFWG LWVWRLP*LKLAAPCRPSRLR SSPISRRASTTRCLTVSGCPAAP
6675	37043	A	6725	25	573	
6676	37044	A	6726	1	483	

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6677	37045	A	6727	1	996	MVGKAKWKPIELPLLRKIVNQ KQYHIPGGVAKISATIKDLKDV GVVIPTTSPFNSPIWPVQKTDGS WRKWLS*QGQQT/FTVLPHG YINSLALCHNLIRRDLDHFSLPQ DITLVHYIDDIVLTGSSEQEVAN TLDLLTSLDWALVETECLTMG HQVTMQPELTIMNWALSDPSN YKVGCAQQHSIIKWKWYIRDQ ARAGTTCKWTAAALQPLSRTS LKDSGERKSSQWAE LRAVHLI MHFAWKEKWPDVQLYTD SWA VANGSAGWSGTWKNHDKIA TTVIAQWAHEQSSHGSRNGGY TWAQQHGLPLTKADVATATDE CPICQQQRPTLSP
6678	37046	A	6728	2	1380	CLAGLFGFWSPCIPHLGVLLQSI YLVTQKAA/SSEWGPEQE KALQ EVQAAVQAALILEPYDPAGPVV LEVSLADRDAVWSLWQAPIGE SQQRPLGFWSKALPSSA/DHKA CHAQQHSIIKWKWYIHDRARA GPEGTNSSARYAATM*KWTAS ALQPLSRKSLKDSSEGKSSQWA ELRAVHLAVHVAWKEKWPDV RLDTSWAVANGLARWSGTW KEHDRKIGDKEVWGRGTRIELS EWSKTVTIFVSH/VLLPRLPSIRG LTECLIHQHGIPHSIASDQGTHF TAKELQQWAHAHGIHWSYHVP HHPG\WGKVLQKAVYALNQR IYEWKEESCLHTGVADALRGN WAEGHREHKALWLGLWSTWS QHPLRSLKTRHHPLGLVLS ICEAGGATEELSRASGFATGYG KRKEDTKKHKQHSVSDIIEQQH SLGLTEKTVKGTPTQGISM RPG LYHKATEFQE
6679	37047	A	6729	1	2229	
6680	37048	A	6730	1	789	RDLQPFTSVTVHCRKGNDQTF GGPLDAGSELTLPDPKHHC PPVKVGAYGGQVINGVLA\HPL IWL VQKTDGS/WRMTVDYCKL NQVVIPIAAAVSDVVSLEQINT SPGTWYAAIDLANAFFSIPVHK AQKQFAFSWQQGQYTFTVLP QWYINSPALCHNLIRRDLCFS LPLDITLVHYIDIMLIGSSEQE VANTLDFVRHLRARGWEINPT KIQGPSTSVKFLGFQWCGACQA IPSKMRDKLLHLVPPTTKKEAQ

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
6681	37049	A	6731	1	553	MTVDYCKLNQVVIPIAAVSD VVSLLLEQINTSPGTWYAAIDLA NAFFSIPVHKAQQKQFAFSWQG QQYTFTVLPQWYINSPALCHNL IRRDLDCFSPLDITLVHYIDDI MLIG\PRQLLACY/WALVETEHL TISHQVTMRPELPIMNWVLFDP SSHKVGCAQQHSIIKWKYVH DWARAGPEGT
6682	37050	A	6732	3	266	
6683	37051	A	6733	3	582	
6684	37052	A	6734	3	403	
6685	37053	A	6735	1	2712	
6686	37054	A	6736	875	1506	LSIYLVTKAA/SSEWGPEQEK ALQEVQAAVQAALILEPYDPA GPVVLEVSLADRDAVWSLWQ APIGESQQRPLGFWSKALPSSA/ DHKACHAQQHSIIKWKYIHD RARAGPEGTNSSARYAATM*K WTASALQPLSRKSLKDSSEGK SSQWAE LRAVHLAVHVAWKE KWPDVRLDTSWAV/ANGLAR WSGTWKEHDRKIGDKEVWGR GTRI
6687	37055	A	6737	1	633	MTVDYRKFNQVVTPTMAA/AVP DAVSLLEQINTFPGTWYAAIDL ANAFSIPVHEAHQKQFAFLPQ GYINFPALCHNLIRRELDFFLL QDITLVHYIDDILLIGSSEQEVV NTLDLLIHKRSKEAEHTAASRIR VSCLPEQKSHEQTLPEQVPSS GDIKEYFPNAFVLLTTASLQGG DNTSQLQLTWKAPEDIKMSKT DADADEEIEALRG
6688	37056	A	6738	2	1103	DLWPFTRVTLHRGKRNDQTFQ GLLDTGSELMIPEDTKHHCGP PVKVEAYGGQVINGVLAQIQLT VGPVGSNGTHPVVIYPVECIIGI GILSSWQNPHIGSLTSRKT DGS WRMTVHYHKLNMVTPIAAAI PDVVSLLLEQVNTSPGSWYAAID LANAFFFFIPVHKAHQKQFAFSW QGQQYTFTVLPQWYINSPALCH NLIRDLDCFSPLDITLVHYID DIMLIGSSEQEVANTLDLFVRH LRARGWEINPTKIQGPSTSVKFL GFQWCGACQAIPSKMRDKLLH LVPPTTKKEAQCL\QLLACY/W ALVETEHLTISHQVTMRPELPI MNWVLFDPSSHKVGCAQQHSII KWKYVHDWARAGPEGT

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6689	37057	A	6739	1	2058	
6690	37058	A	6740	2	1173	WEVRQYTFTVVPQGHINSLVLC HDVVRRDLGHFFLPQDITLVHY IDDIMLIGSTPPITKKKAQHLVG LFGFWRQLVPHLGVLLWPIYQ VTQQAASFEWGPEKEKALQQV QAAVQAALPLGPYDPADPMVL EVSVADRDVWVSLWQDPIGES QWRSLGFWSKALPSSADNYSPP ERQLLACYWVLVETERL\QWV TPAEEDFNNQVDRMTHSVDTT QPLSPATHVITQWAHEQSGHG GRDGGYTRVQQHGLPLTKADL ATAGKVFQKAV*ALN*HSIYGT LSLIARIHRSRNQGVVEVAPLT ISPSDPPAKFLLPVPPTLRSAGLE FLVPEEGMLPSGDTTVPLNWKL RLPPGHFGLLFLHQQANKGVT VLVGVTDL DYQDEISLLPHNG
6691	37059	A	6741	823	2487	KELKLWKNRHKLLSYPTVGAA VTQLQNLTAMGVIGSHGARGQ VVALNRQRQGDLPFTRVTVH WGKG/NMQIFGGLLDTGSELT IPGDPKHHC GPPVKVGAFFG\Q VINGALARVQLIVGPVGPWAHP VVISPVPECIHDILSSWQNP SLTGRVRAIMVGKAKWKSLEL PLPRKIVNQKQYHIPGGIVEISA TIKDLKDAGEVIPTTFPLNSPI WPVRKTDGCWRMTVDYCELN QVVTPTAATVPDVVSLLEQINT SPGTWYADIDLANAVFSIPVHK AHQKQFAFSWQQQYFTFTVLP QEYINSLGLCHNLIQRDLDFSL LQDITLVHYIEDIMLIGSTEQ NTDLLFMAKEVWQWAHAHG IHWSYHVSHHPEAAGLIEWWK GLLKLQLQCQLGDNTLEGWGK VLQKTVYALNQHPYGTVP RIHRSRNKGVEVAPFTITPSDPL PQFLLPVPATLCSAGLEVLAPE GGTLPPGDRTTIPLNWKRLRPP EDFGLLPSLSQQA KKGVTVLAG VIHPDYQDEISLLLHNGCKEDL
6692	37060	A	6742	3	350	
6693	37061	A	6743	1	3339	
6694	37062	A	6744	1	2271	

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6695	37063	A	6745	3	1377	AHLAADDFTK*GWVSG\LPQG LDKLTLPGANLEMQPENLKED LVYLKKNHEELSMAIKRNESM AKGLQRALLQQPEDDSKCFP RPQDLIRLYDIILQLTLEDREGK GLSFSFACVDKDVSVKMDTVP GVNLSCILNEMRDQDKKLVEK SCKDAQGWFFSLKALLEGSLVE TEVCYRTQLAQLQGLIRSMEQQ LCELCCDAEHQDHEHQVLLDV KTQLEQEIATYSRLLEVEDAQL ATQYSLSLASQPTREDLEKAIL KFIWNQNRAQIAKTILSKKSKA RGIMLPFSKIIYYKTTVTKTAWC WYKNRHIDQWNRIENPEIRPHT YNHVIFDKPDKRKQWGKDSLF NKWCWENWLAICSKLTLDPFL NPYTKVNSRWIKDLNLQPKTIK ILKENLGNAIQDTGKGKDFMTK MPKAIATKAKIDKWDLIKLSF CTALRNYQQSKPTTYRMGENF
6696	37064	A	6746	1	882	
6697	37065	A	6747	13	1402	STGSTHACDLLFSPSPVCLPPAA ATMTTSIR\QFTSS\SIKSSGL GGG\SSRTSRLSGGLG\AGSCR LGSAGGLGSTLGG\SSYSSCYSF GSGGGYGSSFGGVDGLLA\GGE KA\TMQNL\ND\RLGSYLDKVPC PWKEANTELEVKIRDVTRGR APGPARDYSQYYRTIEELQNKI LTATVDNANILLQIDNARLAAD DFRTKFETEALRLSVEADING LRRVDELTLARADLEMQIENL KEELAYLKNHEEEMNALRGQ VGGEINVEMDAAPGVDLRILN EMRDQYEKMAEKNRKAEDW FFSKTEELNREVATNSELVQSG KSEISELRRTMQALEIELQSLS MKASLEGNAETENRYCVQLS QIQGLIGSVEEQLAQLRCHEMEQ QNQEYKILLDVKTRLEQEIATY RRLEGEDAHLTQYKKEPVTTT QVRTIVEEVQDGKVISSREQVH
6698	37066	A	6748	2	452	FLLPSSFSCTHSLLSPTITIVPGP DFNLASHIIPDTTPDPHDCISMIH LTFTPFPHISFFPVPHPDHA*FID GSSTRPNRHTPAKAGYAIAQAT IPPLRTSHFLSIVEIYPQGNFVS FHVLFYYSSGIIQAPSLPYTLRR DRRPGTSRA
6699	37067	A	6749	1	1791	

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6700	37068	A	6750	1	219	
6701	37069	A	6751	2	528	TLTVESKSIKAYKLSLQFPHTC PKTGHALQVSSGFVESPTVTIVP GLDINLASHTIPDNTPEPHDCIS LIHLTFTFPFHVVSFFVPHPDHT WFIDGSSTRPNCHSPAKTGYAI VSSTLIIDATALPPSTTSQQAELI ALTRALTLAKGLPINIHTDSKY AFHILHHHAVI*AER
6702	37070	B	6752	1	1744	
6703	37071	A	6753	1	1376	MCKRMPGLQASQTVCPFYDKN YLDLKRKGTEIKRRERLKC GTK IERRKRLRDSERLEKRIKRGCLP DLKLSTEIQINRLRGLYTLLRKE RRFGLQETINYAEVTGIYVKELI EDREHLNSGKYIFNIFDIKVP RV VFGIIDPYMLWEKKEGTKEGK EGMKRESQKRIKWERSFITFIAL NTADRTLMSAGCYRKQVKIHI DALPPNSQTLKRGGSALISF RRQSGPSAAGLWEFARGPFQTL FAWLSPAEEAEQQRLLPASSAE SFIAEGDPPDAGQSSPPSSLHAA AATALLLEALKITNYAQLTLY SSPNFQNLFSSSHLTHILSADWL LQLYSLFVESPTITIVPGPDFNPA FHFIPDTPDPHDCISLIHLTFTF FPHISFFVPHPDHTWFIDGSST RPNRHTPAKAGYA/DGRNTSYC VLSPVGNSPLVPNPGSARCTEG GLLYARA
6704	37072	B	6754	400	820	
6705	37073	B	6755	1	1190	
6706	37074	A	6756	1	1002	
6707	37075	B	6757	1	3216	
6708	37076	A	6758	1	4020	
6709	37077	A	6759	1	1155	
6710	37078	A	6760	2	346	SSYLMHILSAPNLLQLYSLFVES PTITIVPGPDFNLASHIILDTPD PHDYLSDPDDIHS/TFF/DISFFPV PHPGHTWFNDGSSTRPNRHSPA KAGHAIVFSTSIIEATALPPSTT
6711	37079	A	6761	189	1201	
6712	37080	A	6762	1	231	
6713	37081	A	6763	1	834	
6714	37082	A	6764	470	479	PRNPSSFLQVQVQHRFLQLFVP FHFVFFLASLYVMVTLTTWFR* DPCVSGMALNCSFLKIASSSGE YLRPTPSYLNQVVRVTMT
6715	37083	A	6765	21	706	
6716	37084	A	6766	1	158	

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6717	37085	C	6767	78	401	
6718	37086	A	6768	536	694	
6719	37087	C	6769	1	1410	
6720	37088	B	6770	1	1836	
6721	37089	A	6771	306	487	VGFLGILF/CFEAIVNVSSLMIW LSVCLLSVYKNACDFCTLILYP ETLLKLLISSSSLYLW
6722	37090	A	6772	714	1096	FFLPMSMECSSICLYPL/CISLRS GL*FSLKRSFTSLVSWIPRYFILC KSQGMRWLGLGSEA*YSCLLIL IRKITQNSVEVLGRRKFLGGGM EREWVMFLRAASSGIRGSVGT NFKSESRHQISCASV
6723	37091	C	6773	1	2796	
6724	37092	A	6774	126	490	FFLPMSMECSSICLYPLLFPGAV VCSSP*RGPSHPL*VGFLGILF/C FEAIGNGSSLMIWLSVCLLLVY KNACDFCTLILYPETLLKLLISL RRFWAETMGFSRYIIMSSANRD NLTSSFPN
6725	37093	A	6775	1	550	
6726	37094	A	6776	578	865	MCPRDYGMLCLCSHCFCHEHLY FCLHFVMYPVVIQEQVVFPCS *AVLSEFLNPEF*FDCTVV*ETV CYNF*SFTFAEKSFTSNSVVFNG IGVVC
6727	37095	A	6777	1	2091	
6728	37096	C	6778	1	1458	
6729	37097	B	6779	1	504	
6730	37098	A	6780	70	511	NHASPGIRNLFHPRGLRAITIA VFCKQNTYIRLEPFKINVLEQIT KHIEKLQCGGVVKQLSRRGN QHISSTYDINRADTQVRRVNN YDIIA*ATVSMASRSIRCGSVGS LPSSNLPINSVSIRCRARQEGIM SSPGQQVGFA
6731	37099	A	6781	3	306	
6732	37100	A	6782	1	3567	MHIVVETALSASWQNKAKPPA RVLLQVVPNVWFLVAVVWEL YPSLDLMDRSIECSSSPATEQS WTENDYDKLREEGFRRSNYSE LQEDIQTKGKDVENFEKNLEEC ITRITNTQKCLKELMELKTKAR ELREECRLSRSCDQLEERVSV MEDEMNMKQEGKFREKRIKR NEQSLQEIWDYVKRPNLRLIGV PESDGENGTKLKNTLQDIIQENF PNLARQAKVQIQEIQRMPQRY LTRATPRHIIVRFTKVE
6733	37101	A	6783	386	550	
6734	37102	A	6784	1	594	

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6735	37103	A	6785	1	1324	MGKKQSRKTGNSKRQSASPPP KERSSSPAMEQSWMENDFDEL REEGFRRTNYSELQEGIQTKGK EVKNFEKNLDECITRITNTEKCL KELMELKAKARELREECRLRS RCDQLEERHHTTPIPKLTTYLE VKLSPANVKEQVITNCLSDHSA IKLELRIKKPTQNPSTTWKLN LLLNDYWVNKEMKSEIKMFFE TNENKNTTYQNLWDAFKAVCR GKFIALNAHKGKQERSKIDTLT SQLRELEKQEQTTHSKVSRQEI TKIRAEPKEIETQKTLQKINESR SWFFERINKIDRRRLARIKKKRE KNQRDAIKNDEGDITDPTIEIQT TIREYYKHL YANKLENLKEMD KFLNTYTLPRLNQEEAESLNRPI AGSEIVAIINSLPTKKSPGPDGFT AEFYQRYKEKL VFGAGYFGM WALAALPSNLLKLSQLCQEEA EVNVLVQFVCIC*SCLNSVRRQ
6736	37104	C	6786	1	1719	
6737	37105	B	6787	1	1098	
6738	37106	C	6788	1	1782	
6739	37107	A	6789	3095	3217	CRCLQMAM*WS*AIALSMKIS MSPRKPEV*IKVLAGLCCL
6740	37108	A	6790	1	5364	
6741	37109	C	6791	1	2505	
6742	37110	A	6792	37	1214	KLLQDL PFSINSSAVEKISMSTT GQVIRCKAAILWKP GAFSIEEV EVAPPKAKEVRIKVVATGLCGT EMKVLGSKHLDLL YPTILGHEG AGIVESIGEGVSTVKPGDKVITL FLPQCGETSCLNSEGNFCIQFK QSKTQLMSDGT SRFTCKGKSIY HFGNTSTFCEYTVIKEISVAKID AVAPLEKVCLISCFSTGFGAAI NTAKVTPGSTCAVFLG\GVGL SVVMGCKAAGAARD/IIGVDVQ QGRKF*GRAQELGATEC\LN PQ ALKKPHFKEVLFDMTDAGIDFC FEAIGNLDVLAALASCNESYG VCVVGVLPASVQLKISGQLFF SGRSLKGSVFGGWKSRQHIPKL VADYMAEKL NLDPLITHLNL DKINEA VELMKTGKW
6743	37111	B	6793	1	2280	
6744	37112	A	6794	1498	1764	LVYLKVMGRMEPSWKTLCRIL SRRTSANLSKAGQCS DSGNTEN TTKILLKKSNSKTHNCQIHQS*N EGKNVKGSRERSGY PQRGRPS

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6745	37113	A	6795	3	640	
6746	37114	A	6796	1	996	
6747	37115	A	6797	1	933	
6748	37116	A	6798	74	1128	LLLDL*VD*SPSRPLEMRFRV*P MKRCTTLKKNYLSFLVYISRN *NRVKAIM/VGKAEWKTIPL PRKTVNQKQYRIPGGIAEISTTI KELNNAGMVIPTTSPFNSPIWP VQKIDGSRMTVDYCKLNQV VTPIAATVPYVVSSLEQIN/TSPG T/WNRKRFCNRSRLHLKLLCHL GHMTQQI*CFLRCQWHIGMLF GPEICGCTSLSGQKL/WKIFVSH AASFWSPEQEKALQQVQAVV QAALPLGPYDPADPVLEMSV ADRDVWILWQAPISESQWRPP GFWSKALPSSADNYSPPERQLL ACYWTLVETERLTMGHQVTIPP ELPIMNWVFSDDLSSPKMCHPQQ
6749	37117	A	6799	1	229	
6750	37118	A	6800	1	1011	MVSTPATLPSLPKALMASWG VPYDQLTKEEKTRVWFTDGS RYAGTTQKWTAVALQPLSRTS LKDSSEGKSSQWAEQAVYLV VHFAWKEKWPDVGLYTDWSA VANGLAGWSETWEKQDWKIG DKEIWGRGMWMDLSEWSKAV KIFVSHVSAHQRVTSAAEEFN QVDRPL/PVFTQWAHEQSGHSG RDGGYWAQQTGLPFTKADL AMATAECPICQQRPPLSPLYS TIPQGDQPATWWQIDYIGPLPS WKGQKFVLTVIDTYSRYRFAY PAHNASAKTTIHGLIECLHCY IPHSIASDQSIHF/TTKEVQ*WAH AHGIHWSYHVSHHPEAAGL
6751	37119	A	6801	2	739	HKMGHAQQHSIIKWK*YICDW ARAGPKGTTAPMASWGVLYD QLTEEEKTRAFTDGSARYAG TTQKWTAAALQPLSRTSLKGS GEGKSSQWAEQAVHLVVHFS WKDKWPDVRLYIDSWAVANG LAGWSGTWKKHWDWKIGDKEI WGRGMWMDLSEWPVKPVGIFG SHVSAHQWVISAEEFNQVD KMTCSVDITQPLSPATPVITQW AHKQSGHGGRDGGYTWAQQH GLPLTKTGLAMATAECPI
6752	37120	A	6802	1	354	
6753	37121	A	6803	3	592	

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6754	37122	A	6804	126	365	QLAEPHWLPD*KGAGFEWGP EQKKALQ*VQAAVQAALPLGP YDPADPMVLVSVADKDAVWJ FHLGSDRWRRTYRCL
6755	37123	A	6805	1	636	MEFNDSMHNTFDHIWRTKEYD EAGWLLSSLDKAMKENDEL DSNSQIQKQILSLQSSKIILNLT GTVVTQLQNLNSVGIIGSQGGR GQVAALSLQRQGASFEWSPEQ EKALQQVQTAVQAALPLGPYD PSDPMVFEVSVADGNAVWSLW QAPIGELQWRTLEFWSKALPSS ADNYSFGRQLLACYWALVET EHLTVDHQVT/M*PELPIM
6756	37124	A	6806	1	672	
6757	37125	A	6807	308	470	
6758	37126	A	6808	1	1908	
6759	37127	A	6809	1	1218	MGIIGSRGGRGQVAALKRORQ VTKKAASFEWGPEEEKALQQV QAAVQAALPLGPYDPADPIVLE VSVADRGAVWSLWQVPIGESQ QRPLGFWSKALPSSADNDSPFE RQLLACYCALVETERLDMGHQ VTMRPEVLIINCVLSDPSSH/QG WRLCMDSATWTSTYQ/A*PGY GHC*VPNLPAETNTDPSIWHH S/YG*LASYLVIG*LHWTSSIME GAEVCPHWNRHLLRI*VCLSCT QCFCED/SHPWIHE/ASYLPSWH ST*HCL*SRHSPYS*RSVAVGSC SWNSLVLPSPSS*SSWINRMV EWPFEVTITMPTR*QYSAGLGK SSSEGCVCSESASNIWYCFRSRQ DSWVQESRGGSGSGTIHHHF** PTSKIFASCFLDIMFCWT*GCS/S *WRNAATTRHNNFI
6760	37128	A	6810	901	1142	GPEDLQGLFILSFQDPLL/SHPV CLEALAPFPSPVPVPISSFPPHVA GEFWLYPSGAA/RASSDAQSWT VIAVSPLRGLNSWG
6761	37129	B	6811	1	1452	
6762	37130	A	6812	122	1838	
6763	37131	A	6813	101	249	MTHVTALRTSSNLMRN*RKVG EAKSQEH*S*QACHLKSRMSS SRLWIN
6764	37132	A	6814	1	1074	
6765	37133	A	6815	310	397	LTIWQDSNPGSCL*GCSVCAHA /CVGGQHVMVCF*PSYSLYLKSE PKEGTGRNKDPLNSQNRKGF LEQIHQ
6766	37134	A	6816	1	583	

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6767	37135	A	6817	1	486	
6768	37136	A	6818	2	1001	
6769	37137	A	6819	1	2307	
6770	37138	A	6820	3	393	
6771	37139	A	6821	1	1776	
6772	37140	A	6822	1	1140	
6773	37141	A	6823	1	558	
6774	37142	A	6824	2	798	PRVRIFFSITWYSLRVLTEISLW GGLILVVIITIQYDMTRTRNKYL HTNSLVALANMSAQFRISLHQY AA\QRIIRLFSLLSKKHNVLEQ ATQSLRGSLSNDVPLPDYAQD LNVIEEVIRMMLEIINSCL\TNS LHHNPNLGITPWLLQRRSLWN NFR\THPSFQGINGKILIWVIF/LS /SRLQGLAGKLGAELSVERVLEI IKQGVRS\LPKDRLLKKFPELKF YVEEEQPEEFFIPYVWSLVYNF SSRPVLGIPQDIPAVSPWVSD
6775	37143	A	6825	3	206	PSASRPWAHPALHPSVPARG WQPPTGLHPLREQRGLGQHM* QSSGQQPQGGVGPESHFPAL WAQL
6776	37144	A	6826	200	601	EMGSCDQWQRPCVPWEAVVM PRDP/LKMALAVVWPKMKAPR VTKRTP*LTSTHQLAGLTSSISE SLA*MRHSPGKTKMKQAARPP MTEITLPMMSGMKS/VQQQGEQE PDQRLQHSPPLPPHVLLHWHP LVAQPQA
6777	37145	B	6827	25	1407	
6778	37146	A	6828	1786	1795	HC*LNALPSGETWGQKRGPLG TQLPLPL/VPLRAPKGRSPKGSK GPTHHTWALSSFSLTSPQVTVG TEDQATSASGRPWLRIGHTPGG GRVWAGRDS\RGVPALTVLHV LSSLGRETP*RPCLRGPTAPAGP KRAPGKWLPWSQAPPCGCCPR *LSHVL*DRNRCAW*KGGGRG L/LRAPTPVPELAPHPCGPAPTL SKPLSSPNMPAQGLTQE*PGSV ANLPPYGPALLCLGRREWDER GQVG*VPTSESEME*RRTEPLKT PGDCSAAASKIPSFFSNRTFPPL CPHKNKLKGT
6779	37147	A	6829	1	311	
6780	37148	A	6830	1	402	
6781	37149	A	6831	1	750	
6782	37150	C	6832	130	450	

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6783	37151	A	6833	1	875	MRLRLKCLKVEQHVELYQKYS NNSWRYLSNRLLAPSDSPEWLS FDVTGVVRQW/VWSRGGEIEGF RLSA\HCSCDSRDNTLQVDINGF TTGRRGDLATIHGMNRPFLFM ATPLERAQHLQSSRHRRALDTK YCF\S\STEKNCCVRQLYIDFRKD LGWK\WIHEVPKGYHANFCLGP CPYIWSLDTQYSKVLALYNQH NPGASAAPCCVPQALEPLPIVY YVGRKPKVEQLSNMIVRSCKC NLGPAPPRPAPAGPAPPRPAPV ALPMGAVFKDTRAPSPPGAPLK MERGKKKKKK
6784	37152	B	6834	162	635	
6785	37153	A	6835	2	1846	
6786	37154	A	6836	322	2104	
6787	37155	A	6837	1	352	
6788	37156	B	6838	92	1774	
6789	37157	A	6839	260	1016	
6790	37158	A	6840	479	1937	DVEHVGKMRRRWRRRVVVAD GNVVKPMSCAGDLQ/PFTRVTV HWGKGNDQTFQDLLDTGSELT LIPGDPKRHCAPPVKIGAYGGQI INGVLAQVQLTVDAVGPWTHP VVIFPVPECIIGIDMLSSRQNPHT GSLTGRVWTIMVRKAKWKPLE LPLPRKIVNQKQYHIPEGIVEIS ATIKDLKDAGVVIPTTSPFNSPI WPVQKTDGSRMTVGYCKLN QVVTPIAAAVPDVVSLEQINT PPGTWYAAIDLANDF
6791	37159	B	6841	20	26	
6792	37160	B	6842	2	207	
6793	37161	B	6843	187	405	
6794	37162	A	6844	451	770	LFLFLLSSHPRSSASWYRHRH PHHPAARLPVADSASSSSSPSS SSPSPSSSSSSSPSSSSSFVYPHC QPPAPHPH*HSR*QGRLFHFLP LPQLPSSPLSPWW
6795	37163	A	6845	1	417	
6796	37164	A	6846	191	314	
6797	37165	A	6847	129	212	

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6798	37166	A	6848	1	192	CALNAGL/IGENEAKRRRSKVT QEADFPGSMDGASNFVRGDAI AGILIMVINIVGGLLVGV LQHG MSMGHAAESYALLTIGDGLVA QIPALVISTAAGVIVTRVSTDQD VGEQMVNQLFSNPSVMLLSAA VLGLLGLVPGMPSLVFL LFTAG LLGLAWWIRGREQKAPAEPKP VKMAENNTVVEATWNDVQLE DSLGMATGLLT*PIFRAQWTGQ VTLFAAMPSPGSSSWSLTSLAG CWSACCNMA
6799	37167	B	6849	65	1129	
6800	37168	B	6850	46	1038	
6801	37169	A	6851	2	413	PSFQGPVSLPSITVVSIDSQASKP LKTPQLWCQLRQYSFKHSFLV VPTCPVPLLG*DTLTKLSASLTI PGLQPHLIATHLNPQVEDTSIPS LATYHAPLTISLKPNNHPYPSQC QYPIQHALKGLKPVITHLLQH
6802	37170	C	6852	35	346	
6803	37171	C	6853	239	484	
6804	37172	A	6854	1	1020	
6805	37173	A	6855	3	131	
6806	37174	A	6856	1	956	MAGALPPASLPPCSLISDCCASN ERSSMGIGPSEPCAGYNLLVCR LTKKKRIRSTNKVWDYVKRPN LRIIGVPEEEENSKSCENILGEIIE ENFPSLATDLDIQIEAQRTPQK FITERSLPRYIVIRLSKVKTKERI LRAVRQKHQIFLTQRLKTNTAQ SPQKLPGPSQTLLVTLTREITIVP GLDFNPASHIIDTTPDPHDCIS LIHLTFIQFPHISFFPVPHDHTW FINGSSSTRPNRHSPAKAGYAIVS STSII EATTLPSSTTSQQA E FIAL TQALILAKGLCINIYADSKY/AF HILHHH AVIWAERDTFTG
6807	37175	A	6857	1	1269	
6808	37176	A	6858	1	741	
6809	37177	B	6859	411	1257	

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6810	37178	A	6860	438	3997	SPLPHSTPISHPAACFKKIKACY HLPATAWPFKAYKLSLQFPHFT CPKTRQGLQHNSHKNTALPD YRLRLISQTPISTKQQLLSFLG MVSKVRILTQELGPRPIAFLSKQ LDLTVLTQPSCLHAAAAAALIL LKALKITKYAQLTLYSSHNFQN LFSSSYLMHILSAPWLLQLYSLF VESPTITIVPGTDFNPASHILDT TPDPHDCISLIHLTFTPFPRISFFP VPHPNHIWFDGSSTRPKCHSPA KAGY
6811	37179	A	6861	245	505	
6812	37180	A	6862	346	522	PAPEFWVHG*NVSPLSL*SKEQ EDRGFISQGRSPDLSHGTFKHV RPCEETTKQALCEQH
6813	37181	A	6863	3	879	SGDLPWEINPPSSYTLLCEKDP TTSGPQTNQPKKHLTNFKSETK ETRFIRGPTTPAPVTDWEGSLPL VFNHSRDTSLIHPGFRGVRPRR DACLGPSPLAASPTFLGKGPA PRQTELGPNSSSASAPPPYNPFI ASPPHTWSGLQFPSMTSPPPA QQFTLKKVAGAKGIVKDLNLT FKVYNNRKKLQFLASTVRQTP ATSPAHKNFQTPPELQQPGVPPE PPPRGACYKFQKSGHRAKECLQ PRIPPKPHPICVGPHWKSDCPTH LAATPRAPGTLAQGSALTSPQIFL
6814	37182	A	6864	143	331	DTSTPSLVTDHASLTISLKPNIH YPD*CQYPIPQHALKGLKPVITC LLQHGLLKPINSPYPRA
6815	37183	A	6865	1	783	
6816	37184	A	6866	32	415	WRHALKGLKPVITRLLQHGLL RPINSPYNPFLLVLEPDKPYRK RK*ISPPNRHILASVEVLKNQVN SHEFERSALIHTLTSGLAPCSLH KMCSKLPRSFLSVGSGTGKEAR SKILTFRTASRHLVL

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6817	37185	A	6867	1	1374	MSELPFTIASKRIKYLGIQLTRD VKDLFKENYKPLLKEIKEDTNK WKNIPCSWVGRINIVKMAILPK VIYRFNAIPIKLPMTFFTELEKTT LKFIWNQKRARIAKSILSQKNK AGGITLPDFKLYYKPTETKTAW YWYLNRDIDQWNRTEPSEITPH TYNYLIFDKPEKNKQWGKDSL FNKWCWENWLAICRKLKLDPF FTPYTKINSRWIKDLNVRPETIK TLEENLGITIQDIGVGKDFMSKT PKAMATKDKTGKWDLIKLSF CTAKETTIRVNRQVAALLNSA VFQNAVEVVVWPSSEVHVKFL FCKIISCAGQKQPIKFDGSSSL GVATAMMSATIAHLKRIKACY RSPVTAWTFKAYKLSLQFPHFT CPKTGQALQ*HT*KGLKPVIAH LLQHGLLKPINSPYNSLILPVQK PDKPYRKLESFTSKAIKWHQIPS PGKHLC**GS*RSPVTAWTFKA YKLSLQFPHFTCPKTGQALQEA GVIHFKGHQMASDPITQGN TYA NKVAKAASVLTSPVPHGQFFSF SSVTPTYFPTEIDFTYMPQVRKL KLMV
6818	37186	A	6868	122	281	
6819	37187	A	6869	2	2144	
6820	37188	A	6870	224	418	LSQWRHALKGLKSVITRLL*HG LLKPINSYNSPIVPVLKPKDITY RKVESFTAKTIKRCQIPLL
6821	37189	A	6871	5	289	
6822	37190	A	6872	1	2205	
6823	37191	C	6873	1	2082	
6824	37192	B	6874	1	1614	
6825	37193	A	6875	1	2067	
6826	37194	A	6876	1	1152	
6827	37195	A	6877	1	798	
6828	37196	C	6878	488	788	
6829	37197	A	6879	90	765	NTVFGLVVLPLELKLRIFRLLD VRSVLSLSAVCRDLFTASNDPL LWRFLYLRDFRGDFRNDIYSWT TKDFEYYINLVDKTEARFEKVD SDFESFTVGKMPSNSIACTEKSF MKGRVSQCDKKPVITRLLQHG LLKPINSYNSPILPVLPDKPY KLVQDLHRINQIVLPIHPCGAQP HTLFCPQYLPPQLTIPVLDKDA FFTIPLQPSQ\PLFAFT*TDPDT

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6830	37198	A	6880	1824	2286	PRVLRPNsprnispisnrifsd*R CPIASEASWTITDALG/RLLQWR HGLLNpINSPYNspILPVQKPKD PYRLVQALLSLPQLPLFLAWTSI WPPTLFRITLLNPMTVSL*ST*H SLHFPMFpSFLFTLITLGLLMA VPLGLIATHQQRAML
6831	37199	A	6881	930	1289	LSQWTDGLLKPMNSpYNspILP VLKPDkPYK*VQDLRLINQIVL PIHPVVpNPYTLLSSIPPSTTHY SVLDLKLAFFTIPLHPSSQPFFAF TWTDPDTHQAQQIT*AVLPQSF SDSPHE
6832	37200	A	6882	2	196	IHGCKFIQCKRILSNFTEVADHV HDQIRL*TGIRLLTQPQRLSCR HQVAQHSVCRYLCQLPLL
6833	37201	A	6883	2	1441	LNQEEGESLNRpITGSEIEAIINS LPTKKSPGPDGITAefYQRYKE ELVPFLVKLFQSTEKEGILPNSF YEASILIPKpGRDTTKKENFRPI SLMNIDAKILNKILANRIQQHIK KLIHNGQHINRTNDKSHIISIDA EKTFGKIQQPFMLKTLNKLGD GTYLKIIRAIYDKPTANIILTGQ KLEAFPMKTGTREGCPLSPLLF NIVLEVLAIRAIRQEKEIKGIQLG KEEVKLSLFADDMIVYLENPV SAQNLLRLISTFSKVSgyKINVQ KSQAFlyTNnrQTESQILSELPF TIASKRIKYLGIQLTRDVKDLFK ENYKALLNEIKEDINKWKNIPC SWVGRINIVKMAILPKVIYRFN APIKLPMtFFTELEKTTLKFIW NQKSARIAKSILSQKNKAGGIM LPDFKLYYKATVTKTAWYWY QNRDIDQWNTTEPSEIMLHIYN Y/LIFNKPEKNKKWGKDSL FNK WCWENWL

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6834	37202	A	6884	69	2415	DKTSRGTIRQQRLRFTNIRCSAA TAADIQANRVWRGPPANSNRP AA\RVLTVRRKTNKQKGHPHQ KPICTSPSSNTKEIQTITIREYYKH LYANKLENAEERDKFLNIYTLF RLNQKEVESLNRPIGTSEIEAIK SLPTKKSPGPDGFTAKFYQRYK EELVPFLLKLFQSIEKEGILPNSF YEASIIIPKPGRDTTKKNFRPI SLMNIDARILNKILANLIQHHK KLIHHDQVGFIQGMQGWFNICK SINIIQHMRNRTKDKNHMIISIDA EKPFDKIQQPFMLKTLNKLDDID GTYLKIVRAKYDKPTANIILNG QKLEAFPLKTGTRQGCPLSPLL FNIVLEVLAREIRQEKEIKGIQL GKEEVKLSLFVDDMIYLENPIV SAQNLLKLISNFSKVSGYKISVQ KSQAFLYTNNRQTESQTMSELP FTIASKRIKYLGIQLTRDVKDRF KENYKSLSEIKEDTNKWKNI CSWVGRINIVKMAILPKVIYRF NAIPIKLPMTFFTELEKTTLKFI NQKRARIAKSILSQKNKAGGIT LLDFKLYYKATVTKTAWYWY QNRHVDQWNRTEPSEIMLHIY NYLIFEKPDINKQWGKDSL FNK WCWENWLAICRKLKLDPFLLTS YTKINSRWIKDLNVRPKTIKTLE ENLGNTIQDIGMGKDFMSKTPK AMATKAKLDKWDLIKLSFCT AKETTIRVNRQPTGWEIFATY
6835	37203	A	6885	1	2358	
6836	37204	B	6886	1	1443	

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6837	37205	A	6887	452	2913	KMGLAREWILRFLVLILQEIRS MRQKENKDIQDLNSALHQADL IDYRTLHPKSTEYTFFSAPHCI/ RTYSKIDHTLGSKALLSKCKITE IITDSQTTVLSELRIKKLTQ\NRS ATWKLN/MLLNDY.WVHNEMK AEIKMFFETNENKDTTYQNLW DTFKAVCRGKFIALNAHKRKQ ERSKIDTLMSQLKELEKQEOTH SKVSRRPISSEIEAIIINSPTKKS PGPDGFTAIFYQRYKEELVPFL LKLFSIEKEGILPNSFYEASIILI PKPGRDTTEKENFRPISLMNIDA KILNKILANRIQQHIKLLHHDQ VGFIQGMQGWFNICKSINVIQHI NRTSDKNHTIISIDA EKAFNKIQ QLFMLKTLNKLGTNGMYLKIV RAIYDKPTANIILNGQKLEAFPL KTGTRQGCPLSPLLNFIVLEVLA RAIRQEKEIQGIQLGKEEVKLSL FADDMIVYLENPIVSAQNLLKLI SNFSKVSGYKINLQKSQAFLYT NNRQTESQIMSELPFTTASKRIK YLG IQLTRDVKDLFKENYKPLL NEIKEDTNKWRNIPCSWVGRIN IVKMAILPKVTYRFNAIPIKLPM TFFTELEKTILKFRWNQKRAHI AKTILSQKNKAGGIRLPDFKLF YKATVTKTARYWYENRDIDQ WNRTEPLEIMPHIYNHLIFDKPD KNKQWGKDSL FNKWCWENWL AICRKLKLDPFLTSYTKINSRWI
6838	37206	A	6888	1	1677	

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6839	37207	A	6889	2	2400	SMRQKENKDIQDLNSALHQAD LIDIYRTLHPKSTEYTFFSAPHCI /RTYSKIDHTLGSKALLSKCKIT EIITDSQTTVLSELRIKKLTQINR SATWKLN/MLLNDYWVHNEM KAEIKMFFETNENKDTTYQNL WDTFKA VCRGKFIALNAHKRK QERSKIDTLMSQLKELEKQEQT HSKVSRRPISSEIEAIINSLPTK KSPGPDGFTAIFYQRYKEELVP FLLKLFQSIEKEGILPNSFYEASII LIPKPGRDTTEKENFRPISLMNI DAKILNKILANRIQQHIKKLLHH DQVGFIPGMQGWFNICKSINVI QHINRTSDKNHTIISIDAEKAFN KIQQLFMLKTLNKLGTNGMYL KIVRAIYDKPTANIILNGQKLEA FPLKTGTRQGCPLSPLLFNIVLE VLARAIRQEKEIQGIQLGKEEV KLSLFADDMIVYLENPIVSAQN LLKLISNFSKVSGYKINLQKSQA FLYTNNRQTESQIMSELPFTTAS KRIKYLGIQLTRDVKDLFKENY KPLLNEIKEDTNKWRNIPCSWV GRINIVKMAILPKVTYRFNAIPI KLPMTFFTELEKTILKFRWNQK RAHIAKTILSQKNKAGGIRLPDF KLFYKATVTKTARYWYENRDI DQWNRTEPLEIMPHIYNHLIFD KPDKNKQWGKDSL FNKWCWE NWLAI CRKLKLD PFLT SYTKIN SRWIEDLNVRPKT IETLEENLG
6840	37208	A	6890	1	1515	
6841	37209	A	6891	1	1428	

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6842	37210	A	6892	150	1920	NYQCREVLKGPDGAENHGTRT T*RMHKLSSQFSQLEERVSGM EDQTNETKDTHRLKIKGWRKIY QANGKQKKAEEAAILVLDKTD KPTKIKGDKQGHYIMVKGSIQQ GQLTILNIYAPNTGASRLIKQVL RDLQRDLDSHTIIMGDFNTRLS TLDSTRQRLNKDIQELNSALH QVDLIDIYRILHTKSTEYTFESA PHHTYSKIDHTVGSKALLSKGK RTEIITNRLSDHSAIKLELRKEL TQNRSTTWKLNLLNDYWNL WDTFKAVCRGKFIALNIQKRK QERSKIDTLTSQFKELEKQEQT HSKASRRQEITKIRAEKRETQ KSLQKISESRSWFFKINNIDTP LARLIKKKREKNQIDTIKNDKG DITDPTEIQTTRQYYKHLYAN KQENLEEMNKFLDTYTLPRLN WEEAESLNRPTGSEFEAIINSLP IKKSPGPDGFTAKFYQSYKEEL VPFLCLKLFQSIEKEGILPNSFYE ASIILIPKGRDTTKKDNFRPISL MNIDAKILNKILANKIQQHSKK LIHHNQVGFIPGMQGWFNCKS INIIQHINRTKDKNHMIISIDAEK AFDKIQQPSC
6843	37211	A	6893	1	1797	

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6844	37212	A	6894	2	1880	APNTGAPRFIKQVLSDLQRDLDSHTIIMGDFNTPLSTLDRSMRQKVNKDIQELNSALHQADLIDIYRTLHPKSTEYTFFSATHHTYSKIDHIVGSKALLSKCKRTEIITNCLSDHSAIKLELRIKKLTENRSTTWKLNNLLNDYWVHNEMKAEIKMVFETNDTLPRLNQEEVESLNRPKTGSEIEAIIINSLPTKKSPGPDGFTAIFYQRYKEELVPFLKLQFQ SIEKERILPNSFYEASIIIPKPGRD TTKK/EENFRPISLMNIDAKILNKILANRIQQHIKKLIHHDQLGFI PGMQGWFNICKSMNVIQHINS PKDKNHMIISVDAEKAFDKIQQPFMLKTLNKL GIDGTYLKIIRAIYDKPTASII LNGQKLEAFTLKTGTRQGCPLSPLL FNIVLEV LARAI RQEKEIKGIQLGKEEVKLSLFADDMIVYLENPIISAQNLLKLIGNFSKVSGYTINVQKSQAFLYTNNRQTESQIMSELPFTIASKRIKYLGIQLTRDVKDFFKENYKPLLNEIKEDKNKWKNIPCSWVGRINIVKMAIPPKVIYRFNAIPIKLPMTFFGMIFLSQKYGHVTLLFRLQWLLNVARNNNKV FYKIYKVGHKLSSAYVLCLTCSHFSVSFL
6845	37213	B	6895	13	1506	
6846	37214	A	6896	1	6635	MTPESRDTTDLSPGGTQEMEGIVIVKVEEEDHDFQKERNKVESSPQVLSRSTTMNERALLSSYLVA YRVAKEKMAHTAAEKIILPACMDMVRTIFDDKSADKLRTIP LSDNTISRRICTIAKHLEAMLITRLQSGIDFAIQLDESTDIASCPTLLVYVRYIPLKLRLGGLLQPEKPIVLKVESRDGTIQYNSQQHINLSAAWLKTA VQGREGAPGKQPSKQ QHSAKRKTHRTQLKKESGDGP HPKFGGGNLASP
6847	37215	B	6897	1	3045	

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6848	37216	A	6898	1	2764	MARELHDKCTSFSSRFDQLEES LSAMEDQMNEMMREEKFREK RRKRNEQSLQEIWVYVVRPNL HLIGVPESDRENGPKLENTLQDI IQENFPNLRQGNIIQEIQRMP QRYSSRRATPRHIIVRFTKVEM KEKMLRAAREKEIQTTIREYYK HFYANELENLEEMDKFFETYTL PRLNQEEVESLNRPTGSAIEAII NSLPTKKSPGPDGFTAIFYQRY KEELVPFLKLFQSIEKEGILPNS FHEASIIILIP
6849	37217	B	6899	1	3549	
6850	37218	A	6900	387	541	
6851	37219	A	6901	1	545	
6852	37220	A	6902	71	370	RRCKVRPSARGVLRVAVCVCV CVCVYPCVHVCTCVRMCLCVC VCVCE/CSVEIHCGGQGCARCIC LQPQEGGCTEQAVALHCAAQL WRNRLKLMKQPVARV
6853	37221	A	6904	1	738	
6854	37222	A	6905	1	567	
6855	37223	A	6906	1	1416	
6856	37224	A	6907	3	1267	
6857	37225	A	6908	1	552	NALPGRKSRVFSGCVSADTWK PPSSAKVTETKGASPAFLRAGQ PRLVPGETLEKSLGPGKDPQVE PQHPVHLPGISSEGFPWDGFNE QTPKD\LPNRDGGAWVLGYRA GPACPFLLHEEREKSNRSELYL DLHPDHSLTEQDDRTPGRLQA VWPPPKTKDTEEKVGLKYTEA EYQAAILHLKRE
6858	37226	A	6909	1	561	
6859	37227	A	6910	219	1343	RRLCHTQPTLGMRRERSELVNV CVHSVFSLSVQAMQEKDEAK AETIQALYHQTLEALQTLLKAL FIEDPTAGLKSILEALGPWMNS GKAHERARAVNTNVSVLNHM LLTLPFFMPLGFPALGLLLGRLL LHIGDPDEEIGCEALDGIILYTI LELQKRARDKEETNKKELYES NKHFLGPYNPVSPQNILRVIEE FGDFLGPPQIKDLLAALEGLK GSSEAPGKDSREMMQLASEVM LSSVLEWYRHRALVPEIMQGI YMQLSHIQEPRARQVALLPVSL LASSFMTEVVVALLMCPPLNLR QPAACASSCPSTAAWAV*GAST LSCSWPCSFRSITTSASTCLAAW LLPRTPRRVHSPLPSYLCAGW

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6860	37228	A	6911	3	730	
6861	37229	A	6912	2	1218	ERKCMQGGKYAGAMESEPCVCT EADFDCDYGYERHSNGQCLPA FWFNPSSLSKDCSLGQSYLNST GYRKVVSNNCTDGVREQYTAK PQKCPGKAPRGLRVVTADGKL TA\EQGHNVTLMVQLEEGDVQ RTLQVDFGDGIAVSYNLSSM EDGIKHVYQNVGIFRVTVQALV RLPPHISQCDEVFRFFEARPEDV NPPKDQALLLGELGP\AVELCLK EERFADAIILAQAGGTDLLKQT QERYLAKKKTKISSLLACVVQK NWKDVVCTCSLKNWREALAL LLTYSGTEKFPELCDMLGTRME QEGSRALTSEARLCYVCSGSVE RLVECWAKCHQALSPMALQD MHVISTDENQVFAAVQEWNNQ DTYNLYISDTRGVYFTLALENV QSSRGPEGNIMIDLYEVTI
6862	37230	A	6913	1	1659	
6863	37231	A	6914	540	824	KPRLENYVKNAEASGADAINW KKGY/LVMEDEMNMKREGKF REKRIKRNEQSLQEIWVYVKDQ IYVRLVYLKVTGRMEPSWKT CRILSRRTSPI
6864	37232	A	6915	1	939	
6865	37233	A	6916	285	458	QVFSQLEGRIALGKFQRPSSLPT GKWTQRCWWGAQWE*D*LFG LHGWWVRPVIAGFP
6866	37234	A	6917	32	171	
6867	37235	A	6918	294	461	
6868	37236	A	6919	2	255	LIPCPATVNNVSDIMGMYMKE CSASLITREMQRITTIMRHHLTS IGTEMIRK/SKNNECWSGRECQ TVGAGQCVRAPCASRSRHH
6869	37237	A	6920	2	393	
6870	37238	B	6921	87	633	
6871	37239	A	6922	78	260	TQYLRWKCRNHRLLRRSCWEL *TRAVPIRPSWLQNRVYQGTSRF CVCFEESGTPSTQLEI
6872	37240	A	6923	1	369	FVLHEKCLGPF\IWTGNTNVEM VKKICAPT*TKHVW*LES*M WEEPRWPN\GKAPVYSSQREQR RRRVISAFPSEGVLPTFKNKKF TVKQPQVGRSVGIPEGIIGD GQLQGCLLPLKTF
6873	37241	A	6924	3	201	LKEMQINTTMRYHS\TPSRTS*I KKTDNNKFWMRMTEKLETSY CWWECETMQPRWKVSLQYLL PLI

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6874	37242	A	6925	1	2064	
6875	37243	A	6926	95	752	
6876	37244	A	6927	2237	5072	RAKSPANIIMTGSNSHITILTLN VNGLNSPIKRHRLASWIKSQDP SVCCIQETHLMCRDTHRLKIKG WRKIYQANGKQKKAGVAILVS DKTDFKPTKIKRDEGHYMMV KGSIQEELTILNMYAPNTGAP RFIKQVLSDLQRDLDSHTLIMG DFNTPLSTLDRSTRQKVNKDTQ ELNSALHQADLIDIYRTLHPKST EYTFFSAPHHSYKIDHILGSEA LLSKCKRTEIITNYLSDHSAIKL ELRIKNLTQSR
6877	37245	A	6928	3	331	
6878	37246	A	6929	364	853	
6879	37247	A	6930	2	531	RPRVRELVGGSIAIQALKEWNTT GKLRINH*KRCGSTQHHGSKYA TDKEERPDACPLQPQPPIQNG PMNGCEKDSSSTDSANEKPALI PREKKISILEEPSKALRGVTGPNI EKSAKDLQRCTVSLTRYRVMIK EEVDSSVKKITAFAELHNCIID KEASLMAEMGTVNEQAMRC
6880	37248	A	6931	1	456	ISILEEPSKALRGVTEGNRLQ QKLSLDGNPKPIHGTTTSDGL QWSAEQPCNPSKPKAKTSPVKS NTPAAHLEIKPDELAKKRGPN EKSVKDLQRCTVSLTRYRVMIK GEVDSSVKNKAACAEPICIID KEVSLMAEMDKVKGRKPW
6881	37249	A	6932	333	964	
6882	37250	A	6933	240	691	
6883	37251	A	6934	1	2076	
6884	37252	A	6935	14	485	RRSLESVLSRKLNPFF*KATGTSR SESAVWAIIDAVSSPQKRLDSE FIDPLMNKKARISHLTNRVPPTL NGHLNPTSEKSAAGLPLPPAAA AIPTPPPLPSTYLPISHPPQIADS HSPAAPVQGIQPFLLTADQYWLE NRYPSQHLSRVLTASRARHQT
6885	37253	A	6936	1	643	
6886	37254	B	6937	1	408	
6887	37255	A	6938	2	197	
6888	37256	A	6939	103	298	CLWLFQEEEEEEEEEEEEED*EEE EEE/EEEEEEEEEEEEEEEEEEEE EEEEEEEEEEEEEEEEEEEEEEEEKI FLGHRVGI
6889	37257	A	6940	117	257	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
6890	37258	A	6941	46	219	LKECNCIVCNSKNKCLKG*KKK EEEEEEEEEEEEEEEEEEEEEEEE EEEEEEEEEEEEEGRRGRGRGRRR RRRRRRKKK
6891	37259	A	6942	1	1314	MVSRIWSWISAEQCPLCRPSGT YGPGEAALLLWLCIEAAAAAA AARSTTTPIITNHQSNTIAEQNP PRHENGDPKTYIIHVLAEQVLE RLPHGVALRHDPLAPVVSRA GVGHQRCAADDALQPLLQGRP EPGLAERHGVQDNLIKVSHTH TQKSAEKRAVSDPSSTVHRPQP LPPSTVHQSTIPSNPDSSAYCL PSTRHGFSSYTDSFVPPSGPSNP MNPTIGNGLSPQRVHYQHLP AGGKRNAALEYGVPRKYYHM LKITASDYEKTKPFQVGDKVM GSGWRKVGMQT*FL*LKKEE EEEEEEEEEEEEEEEEEEEE EEEEEEEEEEEEEEEEEEEE EEEEENSLSLTE
6892	37260	A	6943	1	160	
6893	37261	A	6944	1	306	
6894	37262	A	6945	1	933	MWLARELEESLAVSLQGEPL LAGAGRLQGSPFSPMEPGRQS ETLSQKKKKKEEEEEEEEE EEEEEEEEEEEEEEEEEEEE EEEEEEEEEEEEEGEEEGEEE DQLDTM\FGTHQQTSPQRSAR RRPCSVQGPRS*SPFSPMEPGR QSETLSQKKKKKEEEEEEEEE EEEEEEEEEEEEEEEEEEEE EEEEEEEEEEEEEGEEEGEE EEDQLDTMLWDSSTNLNTAL SKEKTMFSSRAKIVKPNGEKPD EFESGISQALLELEMNLDLKAQ LWELNITAAKEIEVGGGRKAIH FVPVPQLKSFQKTQVQLRRILP KPTQKSCTNNKQKLPRSCTLTA VHDAILEDLVFPSEIVGKRIHV LDGSHLIKIHLEAQQNNVEHK VEPFGSVYKKLMDKDVNFEP
6895	37263	A	6946	1	1365	
6896	37264	A	6947	416	610	EFKKPVLEGGA*RGEGGSPCV WSFFDPVHFNYQAGLFRVALP GEQCRTGRLVARVYTGISGASF
6897	37265	A	6948	1	846	

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6898	37266	A	6949	3	620	HVTLIVVTQSHLVIHNLFEGLI WFIVPISCVICNDIMAYMFGFFF GRTPLIKLSPKKTWEGFIGGFFA TVGFGLLLSYVMMSGYRCFVCP VEYNNDTNSFTVDCEPSDLFRL QEYNIPGVQSAIGWKTVRMY PFQIHSA\STFASLIGPFGGFF ASGFKRAFKIKDFANTIPGHGGI MDRFDCQYLMATFVNVYIACV LRPL
6899	37267	A	6950	50	554	
6900	37268	B	6951	446	625	
6901	37269	A	6952	1	2149	
6902	37270	A	6953	1	1704	
6903	37271	A	6954	1	1853	
6904	37272	A	6955	1	1305	MVKGSIPQEELTILNIYALNTGA PRFIKQVLRDLQRDLDSHTIIMG DFNTPLSTSDRSTRQKVNKDIQ ELNSALHQADIIDIYRTLHPKST EYTFFSAPHHTYSKIDHIVGSKA LLSKCQRIEITNCLSDYSAIKLE LRIQKLTQNCSTIWKLNNLLLN DYWVHKEMKAEIKMFFETNEN KDTTYHHLWDTFKA VCRGKFI ALNAHKRKQERFEMDTLTSQL KELKKQEQT HSKASRRQEITKI RAERKEIETQKTLQKINESGSW FVEKINKIDRPLARLIKKKREKN QIDAIKNDKGVITTDPTIEQT TIR EYYKHLYANKLENLEEMDKFL DTYNLRRLNQGEVESLNRPTG SEIEAIINSLP/TKKSPGPNGFTA KF*QEELTILNIYALNTGAPRFI KQVLRDLQRDLDSHTIIMGDFN TPLSTSDRSTRQKVNKDIQELN SALHQADIIDIYRTLHPKSTEYT FFSAPHHTYSKIDHIVGSKALLS KCQRIEITNCLSDYSAIKLELRI QKLTQNCSTIWKLNNLLNDY WVHKEMKAEIKMFFETNENKD TTYHHLWDTFKA VCRGKFIAL NAHKRKQERFEMDTLTSQLKE LKKQEQT HSKASRRQEITKIRA ERKEIETQKTLQKINESGSWFV EKINKIDRPLARLIKKKREKNQI DAIKNDKGVITTDPTIEQT TIRE YYKHLYANKLENLEEMDKFLD
6905	37273	A	6956	1	1926	

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6906	37274	A	6957	2	1025	WRRYQANGK*KNK/QKKAGV VILVSDKTDFKPTKIKRDKEGH YIMVKGSIQQEELTVLNİYAPN TGAPRFMKQVLRDLQRDLDPH TTIMGDFNTPLSTLDRSARQKV NKDIQELNSALHQADLNİYRIL HPKSTEYTFISAPHRTYSKIDHI VGRKALLRKYKRTETDCLSD HSAIKLELRIKKLTQNSSTTWK LNNLLNDYWIHNKTKAEIKM CFETSENKDTTYQNLWDTCKA VCREKFIALNAHKRQKERSKID TLTSQLKE/LEKQEQTHSKASRR NLEEMDKYLDYTLPRLNQEE FESLNRPTGSEIEAIIINSLPTKKS SGPDGFTAKFYQ
6907	37275	A	6958	1	1661	
6908	37276	A	6959	2	1632	WRKIYQANGK/HKKAGVAIRV SDKTDFKPTKIKRDKEGHYLM VKGSIQQEELTILNIYATNTGAP GFIKQVLSDLQRDLDSHTIIMED FNTPLSTLDISMQRQVKNKDTQE LNSALHQEDLIDIYRTLHPKSTE YTFFSAPHHTYSKIDHILGSKAL LSKCKRTEITNYLSDHSAIKLE LRIKNLTQSRSTTWKLNNLLN DYVWHKEMKADIKMFFETNES KDTTYQNLWDAFKAEELSLN RPITASEIVAIINSLPSKKSPGPD GFTAKFYQRYKEELVPFLLKLF QSIEKEGILPNSFDEASIIIPKLG RDTTKKENFRPISLMNIDAKILN KILANQIQHIKKLIHHDQVGFI PGMQGWFNHKSINVIQHINRT KDKNHMIIISIDA EKAFDKIQQSF MLKTRNKLIGDGYLKIIRAIYD KPTANIILNGQKLEAFPLKTGTR QGCPLSPLLFNIVLEVLAIRQ EKEIKGIQLGKEDVKLSLFADD MIVYLENPIVSAPNPLKLISNFS KVSQYKINVQKSQAFLYTNRR
6909	37277	A	6960	1	2169	

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6910	37278	A	6961	2	1255	EGKFRENRIKRNEQSLQEIWDY VKRTNLRIGVPESDWENGTKL ENTLQDIIQENFPNLR*AKIQRI RSQDPSTHLTSRDLHRLKIKGW RKIYQANGKQKKA AVTILVSD KTNFKPTKIKRDNEGHYIMVKG SNQQEELTILNIYAPNTGAPRFI KQVLRDLQRDLDSHTITGDINI PLSTLDRSTKQKVNKDTQELNS ALHQVDLIDYRTLHPKSIEYTF FSAPHHTYSKVDHILGSKALLS KCEIEIITNCLSDHSAIKLELRI KNLTQNHSTWKLNNLFLNDY WVHNEMKAEIKMFFETSENKD TTYQNLWDAFKA VCRGKFIAL NAHKRKQERSKIYTLTSQLKEL EKQEQTTHSKASRRQEIIKIRAE KEIETQKTLQKLNESISHQLEW QSLKSQKTTGAGEDVEK
6911	37279	A	6962	1	1122	
6912	37280	A	6963	551	1536	EILSPGPLPYKSS*KKH*TWKGT TGTSCC/INHAKIVTHRLKIKGW RKIYQANGKQKKGAVANLVSD KTDKPTKIKRDKEGHYIMVKG SIQQEELTTLNIYAPNTGAPRFI KQVLSLQRDLDSHTLIMGDFN TPLLTLDSTRQKVNKDTQELN SALHQADLIDYRTLHPKSTEY FFSAPHHIYSKTDHILGSKALLS KCKRTEIITNYLSDHSAIKLELRI KNLTKNRSTTWKLNNLLNDY WVHNEMKAEMKMFFETNENK DTTYQNLWDTFKAMCRGKFIA VNAHKRKQERSKIDTLTSQLKE LEKQEQTTHSKASRRQEITKI
6913	37281	B	6964	28	1209	
6914	37282	A	6965	1	1284	
6915	37283	B	6966	1	1056	
6916	37284	B	6967	124	963	
6917	37285	A	6968	3	1162	
6918	37286	A	6969	1	1364	
6919	37287	A	6970	1	1003	
6920	37288	B	6971	1	1129	

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6921	37289	A	6972	1	1917	MVKGSIQQEELTILNTYAAHTG APRLIKQVLSDLQRDLDSHTIIM GDFNTPLSTLDRSTRQKVNKDT QELKSALHQADLTDIYRTLHHK STEYTFFSAPHHIYSKIDHILGSK ALLSKCKRTEIITNYLSDHSAIK LELWIKNLTONHSTTWELNNLL LNDYWVHNEMKAEIKMFFETN ENKDTTYHNLWDTFKAVCRGK FIPLNAHKRKQERSKIDTLTSQL KELEKQEQTTHSKASRRQEITKIR AELKEIETQKTLQKINESRSWFF ERINKIDRLLARLIKKKREKNQI DAIKNDKGDITTDPTIEIQTIRE YCKHLYANKLENLEEMDKFLD TYTLPRLNQEEVESLNRPIGAE IVAIINSLPTKKSPGPDGFTAKF YQRYKEELVPFLLKLFQSIEKE GILPNSFYEASIIIPKPRDITTK KENFRPISLMNIDAKILNKKLA KRIQQHIKKLIHHDQVGFIPGM QGWFNIRKSINVIQHINRAKDK NHMIISIDAEKAFDKIQPFMLK TLNKL\GIKYLGIHLTRDVKDLF KENYKPLLKEIKEDTNKWKNIP CSWVGRINIVKMAILPKMCL*R RWTPLCLLTAAASLNRE*ERLV QPLLWRQMYCGPRHCRQVPQH RRLNWSPSLRLS
6922	37290	A	6973	1	2673	

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6923	37291	A	6974	261	2667	TWCSGRYMVGCR/DWHLLL V/KGLRKLTI VAEGEGGAGMSLG ESGNKIKRDKEGHYIMVNGSIQ QEELTILNIYAPNTGAPRFIKQV LRDLQRDLDSHTIIMRDFNTPLS ALERSTREKVNKDIQELNSALH QADLVDIYRTLHPKSTEYTFFS APHRTYSNIDHIVGSKALLSNC KRTEITKCLSDHSTIKLELRIKK LTQNRSTTWKLNNLLNDYWV HNEMKAEIKMFFETIENKDTTY QNLWDTFKAECRGKFIALNAH KRKQERSKIDTLTSQLKELEKQ EQTHSKASRRQEITKIRAEKET ETQKTLQKINESRSWFFERINKI DRPLARLIKKKREKNLIDAIKN DKGDITTDPTETIQTIREYYKHL YANKLENLEEMDKFLDTYTL PRLNQEEVESLNRPI TGSEIVAIN SLPTKKSPGPDGFTA EFYQRHT VSILISYCQGGSLMSQVYWNQQ EKPPSSSNAPPGLSVNKAQHRH VCCRGEMLKRVQVHYVRAGES DSASFHCVAQGPRAFGKPLILS KENHLLTVTAIAKLNHKLCEIK SMGVFINTEPLYDSCLEQKHAL FASPPATTHSTTMISKAKVIPML SLTPGSFQTVESLAPSAGKFQG TETSSLKTLINLCCPKLPSPSPA HLGGLPGGSQERPSRQYLYESA RTTVLLGLGCPLKQIQ LRSQHS SPLEYLES LPKKDRKKREKIQIN

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6924	37292	A	6975	1	1687	MLKGSIQQEELTVLNIYAPNTG APRCIKQVLSDVQRDLDSNTLI MGDFNTPLSTLDRSTRQKVNK DTQELNSALHQADLIDIYRTLH PKSTEYFFSAPHHTYSKIDHIL GSKALLSKCKRTEIITNSLSDHS AIKLELRIKNLTQNRSTTWKLN NLLLNDYWVHNEMKAEIKMFF ETKENKDTTYQNLWDAFKAVC RGKFIALNAYKRKQERSKIDTL TSQLEKEKQEQTSHSKEIQTTIR EYYKHLTYTNKLENLEEMDKFL DTYTLPRLNQEEVESLNRPIGTS EIVAIINSLPTKKSPGPDGFTAEF YQRYKEEMHINRAKDKNHMIIS IDAEKAFDKIQPFMLKTLNKL GIDGTYFKIIRAIYDKPTVNIILN GQKLEAFPLKTGTRQGCPLSPL LFNIVLEVLAIRQEKEIKGIQ LGKEEVKLSLFADDMIVYVEN PLPSQPQNLL*GWLSNFSK/MSS GYKINVQKSQAFLYTNNRQTES QIMSELPFTIASKRIKYLGIQFTR DVKDLFKENYKPLLNEIKEDTN KWKNIPCSWVGRINIVK\MAILP
6925	37293	B	6976	1	2431	

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6926	37294	A	6977	1	1921	MGESVQSLTLAQKRSMMIQV AVAPRTPTLLLKLYKEKASKTQ LKKVNLVVQDQGSLESIEVHD HEPADTYKLLSLVKEPAEEIPR VIQNVFGHRSKKENLKDSYGLR QSSTMVATTWNNVSLMQHSL RRPNRHLTASYPHFHQEI PVNF FHSGRDSESGWNQHIKKDKE GHHIMVKGSIQQEELTMLNIYA PNTGAPRFINQVLSDIERDLDSH KIIMGDFNTPLSTLDRSTRQKV NKDTQELNSALHQADLTDIYRT LHPKSTEYTLFSAPHHTYSKIDH IVGSKALLSKWKRTEIITNCLSD PRAIKLELRIKKLTQNRSSIWKL NNVLNDYWVHNEMKAEIKIF FETNENKDTSCQNLWDTFKAV CRGKFIALNAHRRKQERSKIDT LTSQLKELEKQERTHSKASRRQ EITKIRAEMKEIETQK\TLQKINE SRSWFFEKINKIDRPLARLIKKK REKNQIDAIKNNKGDITTDPTI ETTIREYYKHLTYTNKLENLEEM DKFLDTYTLPRLNQEEVESLNR PITGSEVVAIINSLPTKKSPGPDG FTAEFHQRYKEKLISELLPMPN HTALKKQTQDLSCKAMFLYY QSVSVQTAIINYHRLRGLNNRN LFLTVLEYSSLRSGCEHSRVL

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6927	37295	A	6978	1	1848	MSLTkMLICAALLGLFCMLLGL RWQVAELIGMTLALSSTAIA QAMNERNLMVTQMGRSAFAV LLFQDIAAIPLVAMIPLLATSSA STTMGAFALSALKVAGALVLV VLLGRYVTRPALRFVARSGLRE VFSVALFLVFGFGLLLEEVGL SMAMGAFLAGVLLASSEYRHA LESdIEPFKGLLLGAVFTPRVVV NIYSSELRTAKNYQANGKQKK PGVAILVSDKTAf/KPTEIKRDK EGHYIMVKGSIQQEELTILNIY APNTGAPRFIKQVLSDLQRDL SHTLMMGDFNTPLSTLD\RSTR QKVNKDTQELNSALHQADLIDI YRILHPKSTEYTFfSAPHHTYSK IDHIVGSKALLSKCKRTEIITNY LSDHSAIKLELRIKNLTQSRSTT WKLNNLLNDYWVHNEMKAE IKMFFETNENKDMTYQNLWDT FKAVCRGKFIALNAHKRKQERS KIDTLTSQlKELEKQEQTHSKA SRRQEITKIRAElKEIETQKAiQ KINESRSWGPPGNCQQNYRNSE SGEKSAPEGQAQHAGPTEGKV PTFLYVGKEKFPPSYLLTRKSSH LPTCGDPICGEKCWRVPTTSGQ GNKADQWGGVGIGDTHDhSA
6928	37296	A	6979	1	2235	
6929	37297	A	6980	1	2955	

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6930	37298	A	6981	3	2156	KSLKDLMEIKMAQELCDEWT SLSSRCNQLERVSVMEDMN EMKDKHRPKIKEWRIYQANG QQKKTRVANLVSDKTEFKPTKI KRDKEGHYIMVKGSIQEEELTI VNIYAPNTGAPRFIKKVLSDLQ RALDSHTIIMGDFNTPLSTLDRS TRQKVNKDIQELNSALHQADLI DIYRTLHPKSTEYTFFSAPHYTY PKIDHIVGSKALLSKCKRTEIIT NCLSDHSAIKLELKIKKLTQNL STTWKLNLLKDYVWHKEM KAEIKMFFETNKNKDTTYQNF WDTFKA VCRGKFIALNAHKRK QEGFKIDTLTLQLKELEKQEQT HSKASRRINKIDRPLARLIKKKR EKNQIDTIKNDKGDITTDPTIEI TTIREYYKHLIYANKLENLEEM DKFLDTYTLPRLNQEEVESLNR PITGAEIVAIINSLPTKKSPGPDG FTAKFYQRYKEELVPFLKLFQ SIEKEGILPNSFYEASIIIPKGR DITKKENFRPISLMNIDAEILNKI LASQMQQHIKKLIYHNQVGFH GMQGWFNHKSINVIQHINRTK DKNHTIISLDAEKAFDKIQPF MLKLKTLNKLIGDGMYLKIIRA IYDKPTANIILHWQKLEAFPLKT GTRQGCPLSPLLFNIVLEVLAR AVRKEKEIKRTQIGREEIKLSLF ADDMIVYLENPIVSAQNLLKLIS NFTKVSGYKINVKKSQAFLYN
6931	37299	A	6982	3721	8717	MLPIKRHRLANWIKISQDPISVC CIEET\HLTCRDAHRHKIKGWR KIYQANGKQNKTKQQKKQGLQ ILVSDKRDFKPTKIKRDKEGHYI MVKGPQQEELTILNIYAP\NTG APRFIKQVLSDLQRDLDSHTLI\ MGD\FNTPLSTLDRSMRQKVNK DTQELNSALHQADLIDYRTLH PKSTEYTFFSAPHHTYSKIDHIL GSKALLSKCKRTEIITNYLSD\H SAIKLKLRIKNLTQNHSTTWK LNNL

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6932	37300	A	6983	599	1074	NPRAW EKQPPTSPQEFCLVCF VVHLQKSTREALNNKNIKPLLS TFSQVPG/SINHSSCENVLAHSL AIGGVTEGICTASTPFVLLGDVL DCLPLDQCDTIFTFVEKNVATW KSGTASLPAAFMAGVEHLWLF QVNGANCQWIYPSGVWRTVAL FSQLH
6933	37301	A	6984	1	312	
6934	37302	A	6985	2	484	QSRALLW PMLVDVIQPKPWKA PGSLGLPSCISAITVQSSPGLRLC SCGQGPRVNTPGTKLPQPNRPV SLSFSQMKLLTSSHWSFHCPA *INPAQSSPGWP*PQLSGCPAF QFLSFG*KSLSSGNTASSSPLW FLCWCFLNLVLQAKLPDGRPA HRV
6935	37303	A	6986	234	405	ELKICSCDPITVRYNADDSTVSL SFSQMKLLTSSHWSFHCPA*I NPAQSSPGWP
6936	37304	A	6987	1	2021	PTRPAAQWRARAAEKMSPTP PLFSLPEARTRFTKSTREALNNK NIKPLLSTFSQVPGSENEKKCTL DQAFRGILEEEIINHSSCENVLAI ISLAMGEVTEGICTASTHFVLL GDVLDCLPLDQCDTIFTFVEKN VATWKSNTFYSAGKNYLLRMC NDLLRRLSKSQNTVFCGRIQLF LARLFPLSEKSGNLNLSQFNLE NVTVFNTNEQESTLGQKHTED REEGMDVEEGEMGDDEEAPTC SIPIDYNLYRKFWSLQDYFRNP VQCYEKISWKTFLKYSEEVLAV FKSYKLDDTQASRKKMEELKT GGEHVYFAKFLTSEKLMDLQL SDSNFRRHILLQYLILFQYLKGQ VKFKSSNYVL TDEQSLWIEDTT KSVYQLLSENPPDGERFSKMVE HILNTEENWNSWKNEGCPSFV KERTSDTKPTRIRKRTAPEDFL GKGPTKKILTGNELTRLWNLC PDNMEACKSETREHMPTLEEFF EEAIEQADPENMAENEYKAMN NSNYGWRALKLLARRSPHFFQP TNQQFKSLQEYLENMVIKLAKE LPPPSEEIKTGEDEDEEDNDALL KENESPDVRRDKPVTGEQIEVF ANKLGEQWKILAPYLEMKDSEI RQIECDSEDMKMRKQLLVAV QDQEGVHATPENLINALNKSGL SDLAESLTNDNETNS

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6937	37305	A	6988	155	811	EFYRTGKVVHRAPGVQEVTEDP RDPLAQLATDRKERRGSLDH LALRVREAQLDQLVPPEVAA KDLKAPRAKAPVVPLGSPALR APVGTQAPRAHQAKRDSPALR ALLASRDFRAPLGSLGCLDLGD CQACLGYQACQAPRAPALLA HQRWCPWPCRMSQPQHRRT MAARLTGRTSQTNAITFQLRKK FLRMQSFSVKTSLLHILFS*TLER NSNG
6938	37306	A	6989	91	918	
6939	37307	A	6990	199	380	CSTSSRTY*IPSRCSK*HWRH TVNSNFGPMGNPSHPTTSSAHH TVPLIESQPSSTSKK
6940	37308	A	6991	1	483	
6941	37309	A	6992	178	298	
6942	37310	A	6993	864	1298	RLQNRTILASDLGSDRWRRTY RCL*RHGPRFSSCRLSCRRPFDK TCRLMCHQRLSGFPQEQTQRDS RCIQLLFRQRFAAASCPTHQVH VHRWRKPMVFLILESDLKYTV LSLPEECHTGAHEQSSHCLLLSL ASVDVHCSQRP
6943	37311	A	6995	2	348	KKKRKKKIEEEEEEEEEEEEEEE REEEGDEEQEEEEEEEEEEEEEE EEEEEEEEEDDDDDNGLLQTL PGLHEMRVNLTRSDGIISVWHF PFWHFSFLMPYEEGALLRLHLP
6944	37312	A	6996	1	192	
6945	37313	A	6997	1	507	MEKNEKEQEEEEKKEKNSKKK EEEEEEEGGEEEEEGEGGEE EEEEEEEEEEEEEEEEEEEE EEE/DKEEEEEEEEEEEEEEEEE EEEEEEEEEEEEEEEEKVVVE EEDEFIWFLGNSLYFSPFSHFA WSQIPREDEGERRLRVNSMIM DFTSNTNHVQLIVAR
6946	37314	A	6998	1	257	MGPIHKISHYVYANISKSEKVL KSEHFRSQAQPGQQSETVSEK/ EEEEEEEEEEEEEEEEEEEE EEEEEEEEEEEEEEEEEEEE EEEEEEEEEEEEEEEEEE
6947	37315	A	6999	1	156	
6948	37316	B	7000	1	757	
6949	37317	A	7001	1	279	

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6950	37318	A	7002	1	1226	MPSSKGVHSHSPPRYLA AKDF KMINKELTAATFMEVIAEDNRF IYDGIDSNFEPELVFLEFFEALLS FAFICVTDQMTKSYTNVPADD VSGNKHETIYTILNQDAQNKSP SAVMSHESDAAHSDSARSSSSK LELSPDVNKKIRKSEAMVKEKKK ADKKGEKSARSPSSLSDNLDFS KQDGNTTRQEMSPAGVPLLGM QLNEVKPKKDRQNVQQNE/GC HPIRR VHSDQTHSGKL*RGKGS W/DCMREKASQPFKAVVPIV*V /VPFENLQEGEEGR LCEEC PDEP RRVHVAGRSMYEGEVVNGMR NGFGMFKCSTQPVSYIGHWCN GKRHGKVGEVATWRAEKKKK EEEEEEEEEEEEEEEEEEEE EEEEEEEEEEEEEEEEEEEE EEEEEEEEEEEEEEEEKIRP
6951	37319	A	7003	3	123	
6952	37320	A	7004	2	458	
6953	37321	A	7005	239	432	CLWLFQEEEEEEEEEEEEED*EEE EEE/EEEEEEEEEEEEEEEEEEEE EEEEEEEEEEKIFLGHRVGI
6954	37322	C	7006	7	162	
6955	37323	A	7007	39	2154	
6956	37324	A	7008	1	639	
6957	37325	A	7009	1	651	
6958	37326	B	7010	1	684	
6959	37327	A	7011	3	428	TRFQGVYLP LLWEQSF/CWKSPI ALGYTRGHFSALVAMENDGYG NRGAGANLNTDDDVTITFLPLV DSERKLLHVHFLSAQELGNEEQ QEKLLREWLDCCVTEGGVLVA MQKSSRRRNHPLVTQMVEKW LDRYRQIRPCTSLF
6960	37328	A	7012	2	800	

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6961	37329	A	7013	1	930	DHNSSPAMEQNWMENAFDELT EVGFRRWVITNFSKLKEHVLTQ CKEAKKLEKRLEELLTRITSLEK NINDLMELKNTSQELREAYTTE ERISEIEDQLNEIKHEDRIREK/R/ VKRNEQSLQEIWVYVKRPNLH LT/GVPESDGENGTKLENTLQDI IQENFPNLARQANIQEIQRTP QRYSSRRATPRHIIIRFTKVEMK EKMLRAAREKGQVTHKGKPIR LTADPLAETLQARREWGPIFNIL KEKNFQHRMSYPAKLSFISVGE IKYFTDKQMLRDFVTTRPALQE LLKDALNMERNNNQNQSLQKHA KL
6962	37330	A	7014	1	870	
6963	37331	A	7015	1	585	
6964	37332	A	7016	1	1032	
6965	37333	A	7017	2	770	
6966	37334	A	7018	1	2910	
6967	37335	B	7019	239	462	
6968	37336	A	7020	3	694	
6969	37337	A	7021	1	1212	
6970	37338	A	7022	1	1140	
6971	37339	A	7023	1	570	
6972	37340	A	7024	1	486	
6973	37341	A	7025	1	1476	MEVNREKQLNELEVIGSEEQNL EEGLMIGGVA VRLVPDDIVIP GGVNATNGTEARDALRVKVA MSVTLLSGIIQYLLSALGWSYY TVDGVSQKNPRALGVTADQLH AIFTTMSDEQASFRFGVAIYLT EPLVRGFTTAAAVHVFTSMK YLFGVKT KRYSGIFS VVYSTVA VLQNVKNLNVCSLGVGLMVFG LLLGGKEFNERFKEKLPAPIPLE FFADHNSSPAREQKWMENEFD EWTEVSFRRWVITNSSSELKEHI LTQCKEAKNLEKRLEELLTRITS LEKNINDLMELKNTAQEFHEA YTSINS/RNQTEERVSEIEDQLN EI*CKDKIR\ EKKRMKRNEQSLQ EIWDCVKRPNLRLTGVPESDGE NGTKLENTLQDIIQENFHNLAR QANSQIQEIQRTPQRYSSRRATP RHIIIRFTKVEMKEKMLRAARE KGRVTHKGNPIRLIADLSADTL QARRQWEPIFNILKENFQTRISH
6974	37342	A	7026	1	1080	

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6975	37343	A	7027	1	3501	MIVYLENPVSAQNLLKLISNFS KVSGYKIYKIDVQKSQAFLYTN NRQTESQIMSELPFTIASKRIKY PGIQLTRNVKDLFKENYKPLL EIKEDTNKWKNIPCSWIGRINIV KMAILPKVIYRFNAIPIKLPMTS FTELEKTTLKFIWNQKGARIAK TILSKKNKVGGITLPDFKLYYK ATVTKTAWYWYQNRDIDQWN RTEASEITPPIYNHLIFDKPDKN KKWGKDSL FNKWCWENWLAI CRKLKLDPFLTS
6976	37344	A	7028	164	714	IGVNRHLIQESPSWNLGAPLE QIFQRKEQAAIFAILQPLLVISRQ TGSGVDPQQT PADLQK/SGSDS REQNKTENEFDELTEIGCRRWV ITNSSELKEHVVTQCKEAKNLE KMLQELLTRITSLEKNINDLME LKNTAQELREAYTIINSQTDQA EERISEIEDQLNEIKGEDNIREKT VKRNE
6977	37345	B	7029	1	579	
6978	37346	A	7030	1	927	
6979	37347	A	7031	1	1362	MAAGRHLPGVADRHLIQESTG WHLGAPLGWSFQRKEQTAIF AVLQPLLVIPRQTGYGVDLQQ MPADLQQRFLT VRRKTNKQKG IVSTSTKRTSSEGHQHQRKVD KFTEMGRNQHKKAENSKNQ ASSPAPKDHNSLPAREQNWEN EFDELTEIDFRRWVITNSSQTKG SMF*P*CKEAKNLEKRLDELLT RITSLEKNINDPMELKNTAREL REANKSINS*IDQGRKERVSEIE DQLNEIKREDKIREKRMQRNK QTLQEIWVYVVRPNLHLIGVPE SDRENGTKLENTLQDIQENFP NLARQANIQIEIQRTPQRYSSR RATPRHIIVRFTKVEMKEKMLR AARKKGQVTHKGKSIRLSADFS AETLQARREWGPIFNILKEKNF QPKISYPAKLSFISEEITSFTDK QTLRDFVTTTRPALQELLKEAVN MERKNQYQPLQKHTKM
6980	37348	A	7032	1	598	
6981	37349	A	7033	3	787	
6982	37350	A	7034	61	284	RLLEPQGPLRAGSSPAGK/IGGT LERRGMPWPGP/HSEGGLSPLL LGASLAAAPHGEMPSVRVHPV RPSSRDCSSRV
6983	37351	B	7035	743	1683	

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6984	37352	A	7036	1	1137	
6985	37353	A	7037	1	663	
6986	37354	A	7038	1	197	
6987	37355	A	7039	1	291	
6988	37356	A	7040	3	342	
6989	37357	A	7041	1	439	
6990	37358	A	7042	3	253	
6991	37359	C	7043	1	210	
6992	37360	A	7044	1	165	
6993	37361	A	7045	1	346	
6994	37362	A	7046	1	389	
6995	37363	C	7047	1	464	
6996	37364	A	7048	1	1806	
6997	37365	A	7049	491	1640	
6998	37366	A	7051	188	383	
6999	37367	A	7052	1	759	
7000	37368	A	7053	1	1683	
7001	37369	A	7054	1	972	
7002	37370	A	7055	1	429	
7003	37371	A	7056	3	753	DQTFWGLLETG/S/ELMLIPGDP KCHCGPPVKVGAYGGQEIKGV LAQVQITVGPVGTRTHPVVIS VPECIIGIDILSSWQNPHTGSLTG RVRVIMVEKAKWKPLELPLPR KIVNQKQYCIPGGIAEISATIKD LKDTGVMIPTTSPFNSPIWPVQ KTDGSWRITVDYQVVTPIAAA VPDVVSLLEQINTSPGTWQHIT HLDVLLWRIYQVTQKAASFEW GPEQEKALQQVQAAVQAALCH LGHMTQQIQWCL
7004	37372	A	7057	2	430	
7005	37373	A	7058	1	1515	

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7006	37374	A	7059	1	1523	MGEERRWRPSSNGKHGAFAEL DKGWLVWLEGKGVIGARRSW RAHSALIKICVQKIDSLPGKM SKGLLQQQKPKHLLHDLYKA MSTRWGVQKARLNCTALPPTG CVTLDPSTLTPQFPRQLSEDL LTREALEKEVQLRRQLQKEKEE LLYRVLGANASPAFPLAPVPT EVEKERELRLDRLEQQRVLE GKNEEALQDPRLVDPLTSTCTVH FEKPQMLNARLWKHAGREAV ACKVRGSELPKTMGTYPHGH DLVVRHGVKGDFHGFALRFDCP AGFWTCMGPLAPSFWPISPIWN GPPLDISGYPATSTQKSTMCLRI IDTRLHPESRLKQSNFALNAR EKALQQVQAAVQAAALPLGPYD PADPMVLEVSLADRDAVWSL WQAPIGESQQRPLGFWGKALPS SADNNSPLERQLLARYWALVE TEYLTMGHQVTM*P/ELPIMNW VLSDPSSHKVVYA WQHSIIKW K\DRA*AGLAGTSKLHEEVAQ MPIVSTPATLPSCRIL
7007	37375	A	7060	1	2190	
7008	37376	A	7061	286	430	
7009	37377	A	7062	205	514	LWSLCAPVLQVPCLRAAFVFT RRHAPSAGRGFTRSYVSAGSW TETQQGLWGLTKLGADGLLL GISKHLVEFLQIFQISGCWGHYC YLQILFFALNSISPSYHVLFFNV QFGFIFNFMVLCVP*AGTHIAPC KSSSRTRGMSSCENWKGCSKA RHLQYWSTKTPQSLSFCCGIH FVTAVCQP
7010	37378	A	7063	1	487	
7011	37379	A	7064	1	1212	
7012	37380	A	7066	140	453	
7013	37381	A	7067	1	3341	MGKKQNRKTGNSKNQSASPPP KERSSSPATEQSWMENDFDEL EEGFRLSNYSELPEDIQTKGKE VENFEKNLEECITRITNKRNFKP TKIKRDKEGHYIMVKGSIQQUE LTILNIYAPTGA PRFIKQVLSDR QRDLDFHTLIMGDFNTPLSTLD RSTRQKVNKDTQELNSALHQA DLIDIYRTLHKSSTEYRFFSAPH HTYSKIDHLLGSKAFLSKCKRT EITNYLSDHSAIKLELRINKLTQ NRSTTWKLNN
7014	37382	B	7068	1	1785	

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7015	37383	A	7069	1	1141	MVTWNFIQERNNGSGMDQCDD GGGKILDPVYILTVELTGFAKG WKMFSVKDQSVNVLGFAGYPL ITQTARKGAGKIPTWASLRQYQ KGLGSKYQLRRALRPDCALGN GQGVRYCNSLDEEEKRELKLFS SQRKRENLRGNVRPFVPTMT GAICEQCGGQINGGDIAVFASR AGHGVCWHPPCFVCTVCNELL VDLIYFYQDGKIYCGRHHAEC KPRCAACDEIIFADECTEAEGR HWHMKHFCCFECETVLGGQRY IMKEGRPYCCHCFESLYAEYCD TCAQHIGHAGSFIKEC/SRRLLP GEAEI/SRRATVICLVRVSVRPE AASKSPNMRRKRKRKGACPLS SVGPVIPSVP*NTQRT*RPQSRP LGAPWNPWPCLMQ
7016	37384	A	7070	1	2388	VHQYYSCLPEEKVPYVNSPGKE LRIKQLLHQLPPHDNEVRYCNS LDEEEKRELKLFSSQRKRENLG RGNVRPFVPTMTGAICEQCGG QINGGDIAVFASRAGHGVCWH PPCFVCTVCNELLVDLIYFYQD GKIYCGRHHAECCLKPRCAACD EIIFADECTEAEGRHWHMKHFC CFECETVLGGQRYIMKEGRPYC CHCFESLYAEYCDTCAQHIGID QGQMTYDGOHWHATETCFCC AHCKKSLGRPFLPKQGQIFCS RACSAGEDPNGSDSSDSAFQNA \GPRSPGAVPKLARTRARR\GAH AEPAQPAASEF*PAVSRRRPPVT ADGHAQPVQPDTPQPGPHLE EPGRALPLWEQDGAEPDPEPSA APRQCNIRTSYSPGGQGAGAQ PEMWGKHFSNPKRSSSLAMTG HAGSFIKECREDYYPGRLRSEQE SYSDMSSQSFSETRGSIQVPKYE EEEEEEGGLSTQQCRTRHPISL KYTEDMTPTETQTPRGSMESESL SNATGLSADGGAKRQEHLSRFS MPDLSKDSGMNVSEKLSNMG LNSSMQFRSAESVRSLLSAQQY QEMEGNLHQLSNPIGYRDLQSH GRMHQSFDGGMAGSKLPGQ EGVRIQPMSETRRRRATSRDDN RRFRPHRSRRRSRSDNALHL ASEREAISRLKDRPPLRAREDY DQFMRQRSFQESMGHGSRRDL
7017	37385	A	7071	1	807	

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7018	37386	A	7072	500	2666	YCLRLAQVGIFPAPSRAWPVLDL DPESRLCCFPSPSLGSLANPTAVG LEEDREQDVGTSSRGGAWDTRI KRELEKMSEKCGGQINGGDIADV FASRAGHGVCWHPPCFVCTVC NELLVDLIYFYQDGKIYCGRHH AECLKPRCAACDEIIFADECTEA EGRHWHMKHFCCFECETVLGG QRYIMKEGRPYCCHCFESLYAE YCDTCAQHIGEAIFGSQGLGPSV MRSPLFWGVGIAAAALDAVLIR AHQRTQGCHHELSALLAFEKG SEKKEEEEQGGQVSRSSSLKVQA QELSATEDKGHISPPFFWEAVYH YASGECRGPYPYSHSLRLYSQ QALPTGRGPSSSQFPFCQFYCC YKKSLLCDCLSKSPALEKAMR GIDQQQMTYDGGQHWATETCF CCAHCCKSLLGRPFLPKQGQIF CSRACSAGEDPNGSDSSDSAFQ NA\GPRSPGAVPKLARTRARR\G AHAEPAQPAASEF*PAVSRRRP PVTADGHAQPVQPDTPQPGP HLEEPGRALPLWEQDGAEPDPE PSAAPRQCNIRTSYSPGGQGAG AQPEMWGKHFSNPKRSSSLAM TGHAGSFIKECREDYYPGLRS QESYSDMSSQSFSETRGSIQVPK YEEEEEEGGLSTQQCRTRHPIS SLKYTEDMTPTTEQTPRGSMESL ALSNTATGKTCSVTFAQKETCR YQDAQFGVKARVKERQSLWS
7019	37387	A	7073	1	2239	
7020	37388	A	7074	1	282	
7021	37389	A	7075	2	430	GFGAQDPKSLALRTHCQTSGW/ SLTEQDPYNNVIRTITIEALAATL GGTQSLHTNVFDEALGLPTDFS ARIARNTQIIHQESELCRTVDPL AGSYGGAIHQIDVAGGLAKRI EAGLSKRMIEEASAREQALIDQ GKRIVGVGT

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7022	37390	A	7076	1	1561	MVTLILYFRFYRLNGDTLRRIQI HLLDKYRKVPPEPVHADIPVGA RRFSRPCS WFLRITKRGYRRTV HAMAGQKEKLLGAGMSDYLA KPIEEERLHNLLRLRYKPGSGISS RVVTPEVNEIVNPNATLDWQ LALRQAAGKTDLARDMLQML LDLPEVRNKVEEQLVGENPEG LVDLIHKLHGSCGYSGVPRMK NLCQLIEQQLRSGTKEEDLEPEL LELLDEMDNVAREASKILGPDK THLRRIRRDVLATDPRPARDRR KACLHACVLRTPPLGAARAIQ QIDEAGGMAKAI EAGLPKRMIE EASAREQSLIDQGKRVIVGVNK YKLDHEDETDVLEIDNVMVRN EQIASLERIRATRDDAAVTAAL NALTHAAQHNNLLAAAVNA ARVRATLGEISDALEVAFDRL VPSQCVTGVI AQSYHQSEKSAS EFDAIVAQTEQFLADNGRRPRI LIAKMGQDGHDRGAKVIASAY SDLGFDVDLSPMFSTPEEIARLA VENDVHVVGASSLAAGRSR
7023	37391	A	7077	1	354	
7024	37392	A	7078	1	1116	
7025	37393	A	7079	1	450	
7026	37394	A	7080	1	252	
7027	37395	A	7081	1	242	
7028	37396	A	7082	1	242	
7029	37397	A	7083	1	9228	
7030	37398	A	7084	3	664	
7031	37399	A	7085	3	718	
7032	37400	A	7086	380	1038	WTRWRASAADNLAHGRWGEO KLVVTTGASGAPDRQAARCAA SAKISWYRSKSGSKHPLTPKEVE KTGWGLKIPG/MGQQQLPERV KEAARILELDGLLKRRPRELSG GQRQRVAMARAIVRDPVFLF DEPLSNLDAKL RVQMRLELQQ LHRRDQVEAMTLAQRVMVMN GGVAEQIGTPVEVDGDDTLEIL GADNLAHDAGRAEAGGDWRI RSARRSSTCAH

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7033	37401	A	7087	380	920	WTRWRASAADNLAHGRWGEQ KLVVTTGASGAPDRQAARCGC IWRKISWYRSKSGSKHPLTPKEV EKTGWGLKIPG/MGQQQLPERV KEAARILELDGLLKRRPRELSG GQRQRVAMARAIVRDPAVFLF DEPLSNLDAKL RVQMRLELQQ LHRRDQVEAMTLAQRVMVMN GGVAEQIGTPVE
7034	37402	A	7088	1	258	
7035	37403	A	7089	3	208	
7036	37404	A	7090	34	125	
7037	37405	A	7091	1	393	
7038	37406	A	7092	1	690	MVAPVYIRDQYSALITNIGKGD HTTFVKPNIPATGEFKGVGFLE APRGMLSHWMVIKDGIIISNYQ AVVPSTWNSGPRNFNDVGPY EQSLVGTPVADPNKPLEVVRTI HSFDPCMAWVGNILLTDEAIGV RIVEALEQRYILPDYVEILDGGT AGMELLGDMANRDHLIIADAIV SKKNAPGTMMILRDEEVPAFLT NKISPHQLGLADVLSDLRFTGE FPPKLPWVQA
7039	37407	A	7093	82	224	
7040	37408	A	7094	1	239	
7041	37409	A	7095	1	1062	
7042	37410	A	7096	1	221	
7043	37411	A	7097	1	1067	
7044	37412	A	7098	1	1545	
7045	37413	A	7099	1	2820	
7046	37414	A	7100	1	1223	
7047	37415	A	7101	1	3087	
7048	37416	A	7102	1	1182	MDKFLDTYTLPRLNQEEVESLN RPITGSEIVAIINSLPTKKSPGPD GFTAEFYQRYKEELVPFLLKLF QSIEKEGILPNSFYEASIIIPKPG RDTTKKENFRPISLMNIDAKILY KILAKRIQQHIKKLIHHDQVGFI PGMQGWFNIRKSINVIQHINRA KDKNHMIIISIDAEKAFDKIQQPF MLKTLNKLQAQNLKLISFNKV SGYKINVQKSQAFLYTSNRQTE SQIMSELPFTIASKRIKYLGIQLT RDVKDLFKENYKPLLKEIKEDT NKWKNIPCSWVGRINIVKMAIL PKVIYRFNAIPIKLPMFTFFTELE KTTLKFIWNQKRAHIAKSILSQ KNKAGGITLPDFKLYYKATVT KTAWYCYQNRHIDQWNR/PSEI TPHIYNYLIF

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7049	37417	B	7103	1	1722	
7050	37418	A	7104	1	3513	
7051	37419	A	7105	1	2546	MSELPFTIATKRIKYLGIQLKSD VKDLFKENYKPLLNEIREDTYK WKNTPCSWIGRINIMMAILPK VIYGFNAILIKLPLTFFTELEKTT LKFTQSLKRAHIAKTILSKKNK AGGIMLPDFKLYYKATVTKTA CTIHNSKDLEPTempsNDTLDK ENVAYIIHHGILCSHSGR VHIL CRDMDEAGNHHSRQTNTGTEN QTLHVLTHKWELNDENTWTQ GGEHHISGPVRTNNKNHMIISIG AEKAFDKIQPFMLKTLNQLGI DGTYLKIIRDIFDRPIANILLNGQ KREASPLKTGTRQGCPPLPLLF NIVLEILARAIRQEKEIKGIQLG KEEVKLSLFADDMIIYLENPIVS AQNLLKLISNFSKVSGYKINVQ KSQAFLYTNNRQTESQILSELPF TIASKRIKYLGIQLTRDVKDLFK ENYKPLLNEIKEDTNKWKNIPC LSIGKINIMKMAILPKVIYRFNAI PIKLPMTFFTELEKTTLKFIWNQ KRARIAKTILSQKNKDGGITLPD FKLYYKATVTKTAWYQYQNR DIDQWNRTEPSEIIPHVYNHLIF DKPDKNKKWKGDSL FNKWCW ENWLAICGKLKLDPFLTPTYTKI NSRWIKDLNVRPKTIKTLEENL GNTIQDIGMGKDFMSKIPKAM ATKAKIDKWNLIELKSFCTAKE TTISVNRQPTEWEKIFAICLSDK GLISRIYKELKQRHKKKTNNPIK
7052	37420	A	7106	1	2575	
7053	37421	A	7107	1	875	
7054	37422	B	7108	1	3421	
7055	37423	A	7109	1	3790	MELKTKARELREECRLSRNRN QLEERVSADEMNEMKREG KFREKRIKRNEQSLQEWDYVK RPNLRLIGVPESDAENGTKLEN TLQDIIQEDFPNLARQANVQIQE IQRTQPQRYSSRRATPRHIIVRFT KVEMKQKMLRAAREKDFKPT KIKRDKEGHYIMVKGSIQEEEL TILNIYAPNTGAPRFIKQVLSDL QRDLDSHTLIMGDFNTPLSTLD RSTRQKVNKDTQELNSALHQA DLIDIYRTLHPKSTE
7056	37424	A	7110	134	307	

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7057	37425	A	7111	2	173	RPPRSEVPGPLSPGRPPAAGLRG R*PAGVRGLREPRAFSGVRVER RSLFIGKDMFDS
7058	37426	A	7112	888	1016	VPGEIHALHSADRQHENA*NAR TRWQHAQSGRSPLFLALSRE
7059	37427	A	7113	573	872	SPSLLPDPDAHVGCS*SRSRKRDP RIRRFDSR*NGLFYCRKTS*PFH *G*MCQ*YQTDPRSNAQCHPVL LRLWWPGDEYDFLCRSGSVGS VRQSGRASGL
7060	37428	A	7114	1	654	
7061	37429	A	7115	71	2776	
7062	37430	A	7116	31	1016	TVLPERPYNRKSSRRNRGNGP PARSFCPSSGRSRRSSSPATGP/ HTAIASALPRIAFGKISDSSTQH TGPQDMAKAAT*NSLRGSMRY SFKPMVGRWIKSCLRPVWC
7063	37431	A	7117	279	1243	SVLLMCAADYLPRPPDVQTCN AVRVWLRHYHRSNHGTPPDFSP GPVSAWYYAH/QPKIPIWSQ/QR GFTD/R*TRHKCPQRFAPVDK*I SSPD*AMNYRKHHRPAPRHTA PTQKARLMADKSSLRHRHNSA NKRRSASPLSSAGYP/GKRIRAQ NLIPASTTNGQLRIRQRRISQAR **TKRMARKGSISPISAVSNSLN SS*ASIIVSSCIRCSALSPLSNIHK S*TAGPWGASSRKTNIGLSRQRI FPAWQSPCSRRTVKSSRQCAVT AAISSVAFRNAAFNPEGISVAS SNSLRGSMRYSFKPMVGRWIKS CLRPVWCIRPK
7064	37432	B	7118	1	726	
7065	37433	A	7119	1	138	
7066	37434	A	7120	56	133	
7067	37435	B	7121	1	1524	
7068	37436	B	7122	1	1521	
7069	37437	A	7123	1	1494	
7070	37438	B	7124	4	1698	

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7071	37439	A	7125	1	1725	MELKTKARELREECRSLRSRCD QLEERPNI RLIGVPESDGENGT KLENTLQDIIQENFPNLAKQVN VQIQEIQRTPQRYSLRRATPRHII VRFTKVEMKEKMLRAAREKGR VTLKGKPIRLTADLSAETLQAR REWGPIFNILKEKNFQPRISYPA KLSFISEGEIKSFTDKQMLRDFV TTRPALQELLKEALNMERNRNS WFFEKINKIDRPLARVIKKKRE KNQIDAINKDKEDITTNPTEIQT IREYYKHLYPNKLENLEEMDTF LDTYTFPRLNQEEVESLNTSITG SEIVAIISIA YQPKKVQDQMDPQ PNSTRVLEVLARAIRQEKEIKGI QLGKEEVKLSLFADDMIVYLEN PIVSAQNLLKLISNFSKVS GYKI NVQKSQAFLYTNNRQTESQIMS ELPFTIASKRIKCLGIQLTRDVK DLFKENYKPLLKEIKEDTNKW KNIPCSWVGRINIVKMAILPKVI YRFNAIPIKLPMTFFTDLEKTTL NFIWNQKRARITKSILSQKNKA GGITLPDFKLYYTATVTKTAW YWYQNRWYWYQNRDIDQWN RTEPSEITPHVYNYLIF
7072	37440	A	7126	1	2478	

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7073	37441	A	7127	1	1746	METQKTLQKINESRSWFFKIN KIDRPLARLIKKKREKNQIDTIK NDKGDITTDPTIEIQTIREYYKH LYANKLENLEEMDKFLDTYTL PRLNQEEAESLNKPITGPEIEAI NSLPTKKIPGPDGFTAIFYQRY KEELQHIKKLIHHDQVGFIPGM QGWFNHKLINVIQYINRTKDK NHMISIDAESDKIQPFMLK TLNKLIGDGYLKIIIRAIYDKPT ANIILNGQKLEAFPLKTGTROG CLLSPLLFNIVLEVLAIRQEK EKKCIRLGKEEVKLSLFADDMI VYLENPVSAQNLLKLISNFSKV SGYKINVQKSQAFLYTNNRQIE SQIMSELPFTIASKRIQYLGILT RDVKDLFKENYKPLLNEIKEDT NKWKNIPCSWIGRINIMKMAM LPKVIYRFDAIPIKLPMTFFTELE KTTLKFIWNQKRARIAKSILSQ KNKAGGITLPDFKLYYKAIVTK TAWYWYQKRDVDQWNRIEPS ETIPHICNHLIFDKPDKNKQWG KDSL FNKWCWEI WLAIGRKRK LDPFLTPYTKINSRWIKDFNIRP KTIKTEESLGIQDISMGKKFTS
7074	37442	A	7128	1	1908	
7075	37443	A	7129	1	1494	
7076	37444	A	7130	2	1562	
7077	37445	B	7131	1	1569	
7078	37446	A	7132	1	1593	
7079	37447	A	7133	1	1520	
7080	37448	B	7134	1	2796	

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7081	37449	A	7135	101	1686	SIAYQPKRVQDQMQDSQPNSTR ANIILNGQKLEAFPLK\TGTRQF SKENFE\PLSPLLFNIVLEVLARA IRQEKEIKGIQLGKEEIKLSLFA DDMIVYLENPIVSAQNLLKLISN FSKVSGYKINVQKSQAFLYTNN RQTESQIMSELPFTIASKRIKYL GIQLTRDVKDLFKQNYKPRLKE IKEDTNKWKNIPCSWVERIYIV KMAILPKVIYRFSAIPIKLPMTEFF TELEKTTLKFIWNQKRARIAXSI LSQKNKAGGITLPDFKLYYKDT VTKTAWYQYQNRDIDQWNRT EPSEIMPHIYNYLIFDKPEKNKQ WGKDSL FNKWCWENWLALCR KLKLNPF LTPYTKINSRWIKDL NVRPQTIKTLEENLGITIQDIGM GKDFRSKTPKAMATKAKSDK WDLIKLSFCTAKETTIRMNRQ PTKWEKIFATYSSDKGLISRIYN ELKQIYKKKTNNPIKKWAKDIN RHFSKEDIYAAKRHMKKCSSSL AIRQMQUIKTMMRYHLTPVRMAI IKKSGNNRDMDEIGNHPSQ
7082	37450	A	7136	1364	3024	TEPKTKTT*LSQ*MQKRPLTKF NNASC*KLSIN\IVLEVLARAIQ EKEIKGVQLGKEEVKLSLFADD MIVYLENPIVSAQNLLNLISNFS KVSGYKINVQKSQAFLYTNNR QTESQIMSELPFTIASKRIKYLGI QLTRDVKDLFKENYKPLLNER KEDTNKWKNIPCSWVERINIVK MAILPKVIYRFNAIPIKLPMTEFF TELEKTTLKFIWNQKRARIAXSI LSQKNKAGGITLPDFKLYYKAT VTKTAWYSYQNRDIDQWNRT PSEILPRIYNYLIFDKPEKNKQW GKDSL FNKWCWENWLAICRKL KLDPFLKPYTKIKSGWIKDLNV RPKTIKTLEENLGITIQDIGMGK DFMSKTPKAMATKAKIDKWDL IKLSFCTAKETTIRVNRQPTER EKIFATYSSDKGLISRIYKELKQI YKKRTNNLIKKWVKDMNRHFS KEDVYAAKKHMKKCSSSLAIR EMQIKTTMRYHLTPVRMAI SGNNRITIVLLPGSLIVRSFHVTL NAILLHPGLTLFSPSAGRRIIPR VAFSYLAFSAQPSHNTPVN
7083	37451	A	7137	1	2274	
7084	37452	A	7138	2	2348	

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7085	37453	A	7139	1	2202	
7086	37454	A	7140	1	2823	
7087	37455	A	7141	1052	3831	RHKKPFKKSMNPGAGFFERINK IDRPLARLTKRKREKNQIHAIK NDKGDITTDPTIEIQTIREYYKH LYANKLENLEEMDKFLDTYTL PRLNQEEIESLNRPTGAEIVAI NSLPTKKSPGPDGFTAIFYQRY KEELVPFLLKLFQSIEKEGILPNS FYEASINLIPKGRDTTKKENFR PISLMNIDAKILSKILANRIQQHI KKLIHHDQVGFIQGMQGWFNIC KSINVIQHINRTKDKNHMIISID
7088	37456	A	7142	1	327	
7089	37457	A	7143	1	446	
7090	37458	A	7144	382	1485	
7091	37459	A	7145	1	378	
7092	37460	A	7146	2	217	
7093	37461	A	7147	1	483	
7094	37462	A	7148	1	1260	
7095	37463	A	7149	1	891	
7096	37464	A	7150	5	182	RQGLLVSPRLVQKGEIRTPGLK RSSRLDLQKC*DYRHEPSSLAS EAPSVWVLLPPWRQS
7097	37465	A	7151	1	1914	

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7098	37466	A	7152	1	2200	MKLTTHRENMA LTNGFCHHIA AQQNLYTNTLLAARIKQRLTEQ FELMLRQAQIDFAGKAHSLTEA QANTTQVSAERDRLFKNYQRY LKGSQAAVNPFSE RDIDDARQN FLAQDALAQISQLDSL VNGEQ SQIVSLKAQLAEAKYNLEQTIV RAPSNGYVTQVLIRPGTYAASL PLRPVMVFIPDQKRQIVAQFRQ NSLLRLAPGD DAEVVFNALPG KVFSGKLAAISPAVPGGAYQST GTLQTLNTAPGSDGV IATIELDE HTDLSALPDGIYAQNPKNLKIV ELKAPQLPRSLDDAQIALAVIN TTYASQIGLTPAKDGI FVEDKES PYVNLIVTREDNKDAENVKKF VQAYQSDEIPCRTRSKHCTPAE SGACKTESAARHAGPNLYQCR RIRSANRSAISVKGWRTPCIPDS LPAVEWLTYGSGYL AGMKLGD TPLVEYTRDRLHRETLRSFGRY ELTTAYTPAGQLQS QHLNSLLS DRDYTWNDNGELIRISSPRQTR SYSYSTTGRLTG VHTTAANLDI RIPYATDPAGNRLPD PELHPDST LSMWPDNRIARDDNYLYRYDR HGRLTEKTDLIPEGVIRTD DERT HRYHYDSQHRLVHYTRTQYEE PLVESRYLYDPLGRRVAKRVW RRERDLTGWMSLSRKPQVTWY GWDGDRLT TIQNDRTRIQTIYQ PGSFTPLIRVETATGELAKTQRR
7099	37467	A	7153	719	1575	
7100	37468	A	7154	1	239	
7101	37469	A	7155	1	735	FNDDSP EARKITRRWRIGEAAD LVGVSSQAIRDAEKAGR\LP\HP D\MEIRGRVEQRVGYTIEQINH MRDVFGTRLRRAEDVFPPVIGV AAHKELNNDYTSKKVMKPLIT SNTVTDEIERANVLKMNGKWY LFTDSRGSKMTIDGINSNDIYM LGYSNSLTGPYKPLNKTGLVL QMALDPNDVFTYSHFAVPQT KGNNVVITSYMTNRGFFEDKK ATFAPSFLMNIKGNKTSVVKNS ILEQGQLT
7102	37470	A	7156	1	4368	
7103	37471	A	7157	1	1452	
7104	37472	A	7158	1	516	
7105	37473	A	7159	1	743	

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7106	37474	A	7160	3	1743	DSPEARKITRRWRIGEAADLV GVSSQAIRDAEKAGRLPHPDME IRGRVEQRVGYTIEQINHM RDV FGTRLRRAEDVFPPVIGVAAHK GNDPQGTASMYHGWV PDLHIH AEDTLLPFYLGEKDDVTYAIKP TCWPGLDIIPSC LALHRIETELM GKFDEAQP NLGIGTINVVCAAD VLIVPTPAELFDYTSALQFFDM LRDLLKNVDLKGFE PDVRILLT KYSNSNGSQSPWMEEQIRDAW GSMVLKNVVRETDEVGKGQIR MRTVFEQAIDQRSSTD TSLSTP AAPMVDSL IARVGV MARGNAI TLPVCGRDVKFTLEVLRGDSVE KTSRVWSGNERDQELLTEDAL DDLIPSFLLTGQQT PAFGRRVSG VIEIADGSRRRKAAALTESDYR VLVGELDDEQMAALSRLGNDY RPTSAYERGQRYASRLQNEFAG KYFLRWLMRKIFHIITRCINTAK LPKSVVALF SHPGELSARSGDA LQKAFTDKEELLKQQASNLHE QKKAGVIFEAE E VITLLTSVLKT SSASRTSLSSRHQFAPGATVLY KGDKMVLNLD RSRVPTECIEKI EAILKELEKPAP
7107	37475	A	7161	1	438	
7108	37476	A	7162	1	3216	MKLMETLNQCINAGHEMTKAI AIAQFNDDSP EARKITRRWRIG EAADLVGVSSQAIRDAEKAGR LPHPDMEIRGRVEQRVGYTIEQI NHMRDVFGTRLRRAEDVFPPG FGDFADFGTTIKQDFRL LGQTS VDRLLQLSQGQAVKGNQLLPV SLVKRKTTLAPNTQTASPRALA DSLMLARQVSRL/VKRAPTC WPGLDIIPSC LALPRIETELMGK FDEGKLPTDPHMLRLAIETVA HDYDVIVIDSAPNLG
7109	37477	A	7163	1	513	

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7110	37478	A	7164	1	2027	MRGHREKAAACKPRTRASEGT TPASTFILDQPPNCNYTSGDNH TLRDPHYVEDKGHKYLVFEAN TGTENGYQGEESLFNKAYYGG GTNFFRKESQKLQQSACKRDA ELANGALGIIELNNDYTLKKVM KPLITSNTVTDEIERANVFKMN GKWYLF TDSRGSKMTIDGINSN DIYMLGYVSNLTGPYKPLNKT GLVLQMGLDPNDVTFTYSHFA VPQAKGILCEEDNYTAGDNHM MRAPHCEEDRAHKFVVDANA GTESGHQGEESLFNRACGGGCT FFFSKESQKLQQSACKRDCINA GHEMTKAI AIAQFNDDSPARK ITRRWRIGEAADLVGVSSQAIR DAEKAGRLPHPDMEIRGRVEQ RVGYTIEQINHMRDVFGR LKR AEDVFPPVIGVAAHKG GGYKT SVSVHLAQDLALKG SLLLPKND FLFKLGLEGHLP LKGIHSPPTGA DVARGSSGLPKSELFPERNTQ ELQQDSEEGPLALQVLQSNLM DFADFGTTIKQDFRLLGQTSVD RLLQLSQGQAVKGNQLLPVSL VKRKTTLAPNTQTASPRALADS LMQLARQVSRLESQGNNDGIC EIHVAKYVEIFGLTSAEASKDIR QALKSFAGKL VVFYRPE/VGCR R*KRL*IFSLVYQTCAQSIQRAL QCTYQPISHSLLYRVTEPVYAV
7111	37479	A	7165	1	750	
7112	37480	A	7166	1	723	
7113	37481	B	7167	1	1156	
7114	37482	A	7168	1	999	
7115	37483	A	7169	1	529	MKLMETLNQCINAGHEMTKAI AIAQFNDDSPARKITRRWRIG EAADLVGVSSQAIRDAEKAGR LPHPDMEIRGRVEQ RVGYTIEQI NHMRDVFVAGDEKGYESFPWF IKTCA\HPSRGLYSVHINPYLIPS LSGYRTGLRSFGLVKQKKSPIR MPCVYTNP CVSIVSRMAQASSL
7116	37484	A	7170	1	1038	
7117	37485	A	7171	1	1098	

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7118	37486	A	7172	1	838	MKLMETLNQCINAGHEMTKAI AIAQFNDDSPARKITRRWRIG EAADLVGVSSQAIRDAEKAGR LPHPDMEIRGRVEQRVGYTIEQI NHMRDVFGLRLRAEDVFPPI GVAHKGKGVYKTSVSVHLAQ DLALKGLRVLLVEGNDPQGT TMYHGWVDPDLHHAEDTLLPF YLGEKDDVTYAIKPTCWPGDI IPSCALHRIETELMGKFDEGSL PTDPHLMYYYQAPCMKSNNAL IVILGTVTLDAVGIGLVMPV\CR ASCGISSIPTASVPTMACC
7119	37487	B	7173	1	1212	
7120	37488	A	7174	1	738	
7121	37489	A	7175	1	654	
7122	37490	A	7176	1	448	MKLMETLNQCINAGHEMTKAI AIAQFNDDSPARKITRRWRIG EAADLVGVSSQAIRDAEKAGR LPHPDMEIRGRVEQRVGYTIEQI NHMRDVFGLRLRAEDVFPPI GVAHKAAGNLSCQLH**IGQR AGRGGLRIGRQGGFSFHQ
7123	37491	B	7177	1	753	
7124	37492	A	7178	1	345	
7125	37493	A	7179	1	516	
7126	37494	A	7180	1	1989	
7127	37495	B	7181	1	1191	
7128	37496	A	7182	1	669	
7129	37497	A	7183	1	574	
7130	37498	A	7184	1	934	
7131	37499	A	7185	1	1281	
7132	37500	A	7186	1	324	
7133	37501	A	7187	3	817	
7134	37502	A	7188	1	587	
7135	37503	B	7189	1	610	
7136	37504	A	7190	1	882	
7137	37505	A	7191	1	1077	
7138	37506	A	7192	1	418	
7139	37507	A	7193	1	840	
7140	37508	A	7194	1	337	MKLMETLNQCINAGHEMTKAI AIAQFNDDSPARKITRRWRIG EAADLVGVSSQAIRDAEKAGR LPHPDMEIRGRVEQRVGYTIEQI NHMRNVFGSGLRRPTAELKCA SQT
7141	37509	A	7195	1	1142	
7142	37510	A	7196	1	1080	
7143	37511	A	7197	1	1170	
7144	37512	B	7198	1	1296	
7145	37513	A	7199	1	1179	

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7146	37514	A	7200	1	507	
7147	37515	A	7201	1	411	
7148	37516	A	7202	1	793	
7149	37517	B	7203	366	1502	
7150	37518	A	7204	1	1107	
7151	37519	A	7205	1	2388	
7152	37520	B	7206	1	2260	
7153	37521	A	7207	1	1067	
7154	37522	B	7208	563	1467	
7155	37523	B	7209	1	1272	
7156	37524	A	7210	1	1722	
7157	37525	B	7211	1	1917	
7158	37526	A	7212	1	2679	
7159	37527	A	7213	1	1207	MKLMETLNQCINAGHEMTKAI AIAQFNDDSPARKITRRWRIG EAADLVGVSSQAIRDAEKAGR LPHPDMEIRGRVEQRVGYTIEQI NHMRDVFGTRLRRAEDVFPPG FGDFA\HFGNHHQNRIFALLGQ TSVDRLLQLSQGQAVKGNQLL PVSLVKRKTTLPNTQTASPR LADSLMQLARQVSRLESGQAIR DAEKAGRLPHPDMEIRGRVEQ RVGYTIEQINHMRDVFGTRLRR AEDVFPPVIGVAAHKGGVYKT SVSVHLAQDLALKGLRVLLVE AARGLKKRGLAGTAQGPGE EAPKGKKGKTEPGHERKGNWT GKGPIREGTSPNPPREHGEC APPPPSAKRKQPKAQKRKANSN AHPROPKPKKRPKRQTNSRTN TRSGKRQNKQPEEPK
7160	37528	A	7214	1	2757	
7161	37529	A	7215	1	2984	

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7162	37530	A	7216	1	2387	MKLMETLNQCINAGHEMTKAI AIAQFNDDSPARKITRRWRIG EAADLVGVSSQAIRDAEKAGR LPHPDMEIRGRVEQRVGYTIEQI NHMRDVFGRRLRRAEDVFPPI GVAAHKAKGLTALSPQTDWNR KRNSSKPLAQVQEEDSAWHPE CLQKTRQAWCDNLKTCHTSHG SVMAETA VINHKKRKN SPRIVQ SNDLTEAAYSLSRDQKRMLYL FVDQIRKSDGTLQEHDGICEIHV AKYAEIFGLTSAEASKDIRQAL KSFAGKEVVFYRPEEDAGDEK GYESFPWFIKRAHSPSRGLYSV HINPYLIPFFIGLQNPLTQFRLSE TKEITNPYAMRLYESLCQYRKP DGSIVSLKIDWIIERYQLPQSY QRMPDFRRRFLQCINAGHEMT KAIAIAQFNDDSPARKITRRW RIGEAADLVGVSSQAIRDAEKA GRLPHPDMEIRGRVEQRVGYTI EQINHMRDVFGRRLRRAEDVFP PVIGVAAHKGGVYK\TLISVHL AQDLALKGLPGLLR\EGNDPQG VTSMYHGWPDLHIHAEDTLL PFYLGEKDDVPYAIKPTCWAG AWHFFLPCRALHRIETELMGKF DEGKLPTDPHMLRLAIETVAH DYDVIVIDSAPNLGIGTINVVCA ADVLIVPTPAELFDYTSALQFFD MLRDLLKNVDLKGFEPPDVFIRD KLMERRNRRTGRTEKARIWEV
7163	37531	A	7217	1	917	

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7164	37532	A	7218	1	1862	MKLMETLNHCINAGHEMTKAV AIAQFNDDSPARKITRRWRIG EAADLVGVSSQAIRDAEKAGR LPHPDMEIRGRVEQRVGYTIEQI NHMRDVFGLRLRAEDVFPPVI GVAAHKGGVYKTSVSVHLAY DLALKGLRVLLVEGNPQGT SMYHGWVVDLHIHAEDTLLPF YLGEKDDVTYAIKPTCWPLDI IPSCALHRIETELWGK/FDEGR SFMPGPP/HHHPLGRSSQ*QVSN SLDRAAKGN*KPLCHCPCSGTT HATRLRIKEQRPYVPYAHQQ VVDPRRGHMLI/NVVRVTG DVGKGQIRMRTVVEQAIDQRSS TGAWRNALSIWEPVCNEIFYRL IKPRWEIRWGKRAPVIPKHTLN TQPVEDTSLSTPAAPMVDSLIA RVGVMARGNAITLPVCGRDVK FTLEVLRGDSVEKTSRVWSGNE RDQELLTEDALDDLIPSFLLTGQ QTPAFGRRVSGVIEIADGSRRR KAAALTESDYRVLVGELDDEQ MAALSRLGNDYRPTSA YERGQ RYASRLQNEFAGNISALADAEN ISRKIITRCINTAKLPKSVVALFS HPGEAICPVRMFRMKLMETLN QCINAGHEMTKAIAIAQFNDD PGSEENNPALNR
7165	37533	A	7219	1	2724	
7166	37534	A	7220	1	3252	FNDDSPARKITRRWRIGEAAD LVGVSSQAIRDAEKAGRLPHPD MEIRGRVEQRVGYTIEQINHMR DVFGLRLRAEDVFPPFNDDSP EARKITRRWRIGEAADLVGVSS QAIRDAEKAGRSTATRILEIRGR VEQRVGYTIEQINHMRDVFGLR LRAEDVFPPVIGVAAHKGGV YKTSVSVHLAQDLALKGLRVL LVEGRSFPQTEACLLQYSSWDV SSEKPAALNKNKSEMRGDFAD FGTTIKQDFRLLGQT
7167	37535	A	7221	1	465	
7168	37536	A	7222	1	291	

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7169	37537	A	7223	1	1710	MLCTKWDLGLEKNAGKNKN AYKWYGW PANAPDEPHIEQLV GECRVMRQLKRLISRIAPSPSSV MVGESGTAIPVVS HAEFKGGF ADIGVHYLDWTSRTTEKSSTKS HKDDFGYLEFEGGANFSWGEM YGFFDWENFYNGRHNKPGSEQ RYTFKNTNRIYLGDTGFNLYLH AYGTYGSANRVNFHDDMFLA GFGFQF*PAGGW/WGSNPPFAK\ RYTRSKPYYTGDNGYVAGWV AGYNFMLGSEKFTLTNWEYE FDRDATYAADFLPLYDVDCQD NGNLEYDTYSQPEWKHNLFDH YLAVLYRFKDESGKEQFSGAV VKTREATPGKEIEAITRMLDFS PRLKKLADCPSPRPVFEALCICS MLDALLLLCPLDYHASCDNYS YALLDPQGFPLPHRRLWGPYID VDVPMHLIQHAWAQDALLSC LYSDLLYMSSFYPAGTLTRLM GVTSYNHKNTLLTYCITLMSTI RFAYDGDEEIAMKYTDFLKGE LSMNIRPLHDRVIVKRKEVETK SAGGIVLTGSASAKSTRGEVLA VGNGRILENGEVKPLDVKIGDI VFFNDGYRGEI
7170	37538	A	7224	678	1588	RTQHKASLHGRASAFCPPLFA PQAPRLFDHRGFLT FASANFAA VAFCPPLFPPTGAAAVCPLPLF APRRFLPPPPRLFRCHGFFPPC LGFLTSAAFFLPPPLFALRRRG FLPFAAAAAFFPTRLFAPPPTQL FAPSPWLFAAAAF CPPWLSAP TPPRLFVPAAAAFCCRDFLPSP PLFRHRDFLPPPRIFVPAAL RAGAADSAAGSTGVLGQDLWS RCVVGTGMEAPGSRGGGGGLR EDIPLPPEFSPGALSSCR*GNRR PEGEMTCQEPLLS/CSWIP*VKE FETNPDNIVRPH

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7171	37539	A	7225	1	1627	MTKQLELPQSPGEVPGSDYPLL IACAYIGFLTWGGGFGSGMPLL AATPGNPVEHIAGLIPVGDTLFS GFNIFITVALIVVMPFITRMMMP KPSDVVSIDPKLLMEEADFKQK LPKDAPPSEERLEESRILTIIGAL GIAYLAMYPSEHGFNITINTVNL MFMIAGLLLHKTTPMAYMRAIS AAARSTAGILVQFPFYAGIQLM MEHSVTGIEAAMLDDLGGHLG VNVASLLGDGQQRSEVEMLG LFFVGNRKATPLPYQSQPDDSC DWYRLRHEEAMTPDAVVRLAE AAYEKYGFNDFKLKGGVLAGE EEAESIVALAQRFPQARITLDPN GA\WSLNEAIKIGKYLKGS LAY AEDPCGAEQGFSGREVM AEFR RATGLPTATNMIATNWREMGH AVIAQ\SVDIPLADPHFW TMQG SVRVAQMCHEFGTLWGSH SNN HFDISLAMFTHVGAAAPGNPTA IDTHWIWQEGDCRLTQNP LEIK KGKIAVPDAPGLGVELDWEQV QKAHEAYKRLPGGARNDAGP MQYLIPGWTFDRKRPVFRH
7172	37540	A	7226	3	655	
7173	37541	A	7227	1	633	
7174	37542	A	7228	1	630	
7175	37543	A	7229	362	1491	PTLSVIHESMRFFIRHQPENLTL VVLNRNLPQLALPICVFVINCW KLA VSNWHLPISTGCAVTKDG RWSPEFTITGQA/WDLPVVG YR NGVAQPLRLWQATHAHPFDLT KFNDGDFLRAEQQGINA EKLTK VLYPNDNHTAGKKLR LMQQYF QCACSVADILRRHHLA GRKLH ELADYEVIQLNDTHPTIA IPELL RVLIDEHQMSWDDAWA ITSKT FAYTNHTLMPEALERW DVKL V KGPLPRHMQIINEINTR FKTDL DL QDAEHRPLKMRGCLLCQ CHTL FQGKHRFFTGAGGNRQ NNVIE HLVAASRYRFTTASRR PLFTAG FTLLTAFLFHSNFAEGV NSLMF MKNLTISGGFLLLAITG PGAYSI DRLLNKKW
7176	37544	A	7230	1	660	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
7177	37545	A	7231	545	1322	KHAEHLGQATHAHPFILTGFNP GYFLARRQTTRGINAEK\AKIFF \PKANHFAKKLRLMQYFQC ACSVADILR\RHHLA\GRKLHEL ADYEVIQLNDTHPTIAIPELLRV LIDEHQMSWDDAWAITSKTFA YTNHTLMPEALERWDVKLVKG LLPRHMQIINEINTRFKTLVEKT WPGDEKVWAKLAVVHDKQVH MANLCVVGGFAVNGVAALHS DLVVKDLFPEYHQLWPNKFHN VTNGITPRRWIKQCNPALAALL
7178	37546	A	7232	641	874	KYPTGRDLRMFITGLSERL*EI TSLKRSITGDKYSLRPLTANSV TSVTHFSFGRVALKSLSSVRV SLDLNRCFK
7179	37547	A	7233	1	693	
7180	37548	A	7234	980	1305	TWLRICSIRHKSILTSI/HVLH SDQGWQYRMRRYQNILKEHGI KQMSMRKGNCLDNAVVECFFG TLKSECFYLDEFSNISELKDAVT EYIEYYNSRRISLKLKGSNSN
7181	37549	A	7235	1	3219	
7182	37550	C	7236	1	7521	
7183	37551	A	7237	1351	2117	CDRILCSACCAEPQPVSHLHRL RRSFSEKQPDGNGSQNPASRDR/ DVVDVTVIAWIEHRGGHEAPS GPGEDGMDAPAIAAGTFSPREA STLPVQVS*VCRNLCCSRDVPK ATRVPL/EKLAGPLRHPLFMLF QTCLHLSLFTHHFADDSRRLQIF SVGFVAGLKQYRRDLLQGDV NPRMATAVGNDQVWFQSGNG FQARLRARSDGLPRFQVRTHFG QDAFCIVVGNTDRDDVHGGQ RIGEREFQHHNPLWRFEC
7184	37552	A	7238	690	868	

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7185	37553	A	7239	2607	3692	TWLRICSIRHSLKSLILTSI/HVLHSDQGWQYRMRRYQNILKEHGIKQMSMRKGNCLDNVVECFFGTLKSECFYLDEFSNISELKDAVTEYIEYYNSRRISLKLKGLTPIEYRNQTYMPRVNCPFLDTLRIPDIGGVVRARAIKLLNDTDMAIIDKRRPRANVSQVMHIIGDVAGRDCVLVDDMIDTGGTLCKAAEALKERGAKRVFAYATHPIFSGNAANLNRNSVIDEVVVCDTIPLSEIKSLPNVRTLTLEKYTAARFTRDLIAGITVGIIAIPALAMALAIGSGVAPQYGLYTAAVAGIVIALTGGSRFSVSGPTAAFFVILYPVSQQFGLAGLLVATLLGLDFDSDG
7186	37554	A	7240	1326	3930	NVLRGISAAFFVG*AKAPRNGTQ
7187	37555	A	7241	3	195	RVDDFVGGAGAPASPL*QCGQLQKLIGISIGSLRGLGTKCAVSNDLTEQEIRTLEHCPNSFF
7188	37556	B	7242	75	402	
7189	37557	A	7243	1	309	
7190	37558	A	7244	3	187	
7191	37559	A	7245	383	1778	
7192	37560	A	7246	2	447	IREKLIRLQHENKMLKLNQEGSDNEKIALQLSLDDANLRKNELETE/Q*VLVPINFPLTTAFVSHRFRLVNQRLLLEVQSQVEELQKSLQDQGSKAEDSVLLKKKLEEHLEKLHEANNELQKKRAIIEDELEPRFNSSLKIEELQEALR
7193	37561	B	7247	80	1042	
7194	37562	A	7248	1	192	
7195	37563	A	7249	3	62	
7196	37564	B	7250	219	230	
7197	37565	A	7251	246	594	
7198	37566	A	7252	1	316	
7199	37567	A	7253	1	1059	
7200	37568	A	7254	1	516	EDALEQEKKELQIQVEHYEFQTRQLELKAKNYADQISRLEERES EMKKEYNALHQHTEMIQTYV EHIERSKMQQVGGNSQTESSLP GRSRKERPTSLNVFPLADGT/CT CTDRGQARACGGPLAPE*PRPA AVQLQLPGFVAVPWSERLLPV AGVPRSLGREPRLQAALHGS
7201	37569	A	7255	1	1176	
7202	37570	A	7256	1	749	
7203	37571	A	7257	1	691	

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7204	37572	A	7258	2	810	VMMTGYNNGRCPRNSLYSDCII EEKTVVLQKKDNEGFGFVLRG AKADTPIEEFTPTPAFPALQYL ESVDEGGVAWQAGLRTGDFLI EVNNENVVKVGHRQVVMIR QGGNH\FLKVTVTRNLDPDD TARKKAPPPPKRAPTTALTRS KSMTSELEELVDKASVRKKKD KPEEIVPASKPSRAAENMAVEP RVATIKQRPSSRCFPAGSDMNS VYERQGIAMTPTVPGSPKAPF LGIPRGTMRRQKSIGKKCGTPP QKLPLGFQTQP
7205	37573	A	7259	1	1416	
7206	37574	A	7260	2	1142	
7207	37575	A	7261	1	576	
7208	37576	A	7262	21	289	
7209	37577	A	7263	2	372	
7210	37578	A	7264	170	655	VRRRILGALFTWICSVTRESTSK PLSSALLSAKLLHRARSRTGLS GRNPKTISQDLQFAAIGSPLTES LNLHSRQALRDCCWHTTIPPNP *ICTHARR/WRDCCWHTTIPPNP DTVWRFPLSSPVSAAPKQERAS SEPCSWSHWCRCSLSWLSSIPTE GCTPVCSSICLLMATFPMFSLIK IVR
7211	37579	A	7265	1	1725	
7212	37580	A	7266	307	686	PRRTPMKSCIKIEVPIFVFLRT TRENCLRPIKGYAIYEKAPRSIL KDVHLTRNQCVPIPDYK WWS WQVCRRPKQWGWTQGPVAPK RSAEFFAAHA*KRRRVMLNLR GLDVDSL VIEHIQVNKAP
7213	37581	A	7267	1	276	
7214	37582	A	7268	1	726	
7215	37583	A	7269	3	231	
7216	37584	A	7270	1	217	
7217	37585	A	7271	3	283	KRKTEGDAKGDKAKVKDESQR RSARLSAKPAPPKPEPKPKKAP AKKGEKVPKGKKRKADAGKE REGYWRSQVKCIHFL*LYFW*L YSLKYYFI
7218	37586	A	7272	1	1188	
7219	37587	A	7273	5	365	
7220	37588	A	7274	1	453	

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7221	37589	A	7275	1	441	RQPAHPGTSSAAAAPRKRSAAAHAGVAVAASARLPPCAGCGLRAAPLLASSARLRALRRPIGGLWAAGCAPAAGQLCTAAGSAAPGALQRCGGRHGITRPWCAEIASAG*GSGGSRWGCWPCPCLLRTCTSHPLSSPLPFTHGSLQASFSLTRDCVSSTKTLVWWLEVQR
7222	37590	A	7276	2	1957	
7223	37591	A	7277	1	678	
7224	37592	A	7278	1	720	
7225	37593	A	7279	190	2947	QALQRGLLSR/DRAPCSSKLSWRS/SPRRRAGTGVPQEEVALKP-VLLRHPVQPVIRVKLPRICLLEEAGQLRGVHRLESVEEYYEADGAEWGPPDTAMLESLEPMAGKHSPLQLLDSSASQPGAIQIYS\ILYQIHLYKHLLSSYWGASQWKHTRHTHYFESLW*EHLPS*KYQKREKWADLTRSLENP/GQQPRDSWEP SGFWALPQAGDSCQTSQSPRKPTGPPKPSPPPEEGRLLR/CPTMPVMRKSLTE
7226	37594	A	7280	3	439	
7227	37595	A	7281	1	273	
7228	37596	A	7282	2	1664	
7229	37597	A	7283	1	7511	
7230	37598	A	7284	1	5046	
7231	37599	A	7285	42	8716	
7232	37600	A	7286	2	201	
7233	37601	A	7287	2	797	CS/GSPPTCRQAQTSLEVALYMLQNPDTAEVLVAMSCFCHLCEEADTQCGVDEVSVHNLNLPNSNTFMEFACQQCDVNSPPVGPVSEHKGSMISVMSSEGNADTPVSKYMDQLLSLMVCNLEKVGLQIPTNDKDLVLLTDTNTQFVEQTLDIMKNLLDNHTEGSPEHLEQAS IETMMLNLVRNKMVEYLTDWVMGTSNQAADDDVKCLTSRI/DHPGGTLL*GQPRPELPAGLPRQPASPGPRHPGASCGWPRAPPDSAPGGPGRER
7234	37602	A	7288	56	8669	
7235	37603	B	7289	278	2333	
7236	37604	A	7290	1	423	

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7237	37605	A	7291	2	1688	PLYFHSPPAWLCSPSPPSARLYL ELRKLPATLPWSSVTDGTGSYSA GRRERGGEGEGRRRVRVADH RSALPRTGPQGSEELANMQGL \\VERLERAVSRLES\\SAESHPP GN\\CGEVNGVIA\\GVAPSRGKPL HKLMDSMVAEFLKNSRILSGD VETLAEIVHSAFQAQRAFLMA SQYQQPHENDVAALLKPISEKI KEIQTFQRE/RTRGSNMFNHLA VSESIPALGWIAVSPKPGPYVK EMNDAATFYTNRLKDYKHSD LRHVDWVKSYLNIWSELQAYI KEHHTTGLTWSKTGPVASTVS AFSVLSSGGLPPPPPLPPGPP PLFENEGKKESSPSRSALFAQL NQGEAITKGLRHVTDDQKTYK NPSLRAQGGQTQSPTKSHTPSP TSPKSYPSQKHAPVLELEGKKW RVEYQEDRNDLVISETELKQVA YIFKCEKSTIQIKGVNSIIIDNC KKLGLVFDNVVGIVEVINSQDI QIQVMGRVPTISINKTEGCHIYL SEDALDCEIVSAKSSEMNILIPQ DGDYREFPIPEQFKTAWDGSKL
7238	37606	B	7292	44	355	
7239	37607	A	7293	1	3623	SEKEKEELERLQKEEEERKKRL QLYVFMRCIAYPFNAKQPTD MARRQQKISKQQLQTVKDRFQ AFLNGETQIMADEAFMNAVQS YYEVFLKSDRVARMVQSGGCS ANDSREVFKKHIEKRVRSLPEID GLSKETVLSSWMAKFDIYRG EEDPRKQQARMTASAASELILS KEQLYEMFQNILGIKKFEHQLL YNACQLDNPDEQAAQIRRELD GRLQMADQIARERKFPKFVSKE MENMYIEELKSSVNLLMA
7240	37608	B	7294	1	1555	
7241	37609	A	7295	1	1056	
7242	37610	B	7296	54	2173	
7243	37611	A	7297	1	984	
7244	37612	B	7298	95	1350	

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7245	37613	A	7299	1	2569	MDGAKAFFSAVAAGFVIILTCQ LQWQWQHGGVHAHQLWQLA SGYRDACFCVSTYSSGPSEFPGP TLGTLNELAIDLEERKHRRKAK VWKGEGGGLRSPRQSLLAFRA VLASRGTRSCHVSPYLGVS GAL SSPNPHPSTTGAGPIPPVQRWGL PQINQKNREIAIPLTLGMSTHLR RGCKNMSRFSPLHCCTTPISTN FTDPGSHCKGAHGDICLLIQNL KGALPMSINRSYFNAHPLLQISE AVTFKDVAVVFTEELGLLDPA QRKLYRDVMLENFRNLLSVGN QPFHQDTFHLGKEKFWKMK TSQREGNSGGKIQIEMETVPEA GPHEEWSCQIWEQIASDLTRS QNSIRNSSQFFKEGDVPCQIEAR LSISHVQQKPYRCNECKQSFSD VSVFDLHQSHSGEKSHTCGEC GKSFCYSPALHIHQRVHMG EK CYKCDVCGKEFNQSSHLQTHQ RVHTGEKPFKCGQCGKGFHSRS ALNVHCKLHTGEKPYNCEE CG KAFIHDSQLQEHQRIHTGEKPF KCDICGKSFRVRSRLNRHSMVH TGEKAFRCDTCGKNFRQRSAL NSHSMVHIEEKPYKCEQCGKGF ICRRDFCKHQM VHTGEKPYNC KECGKTFRWSSCLLNHQVHS GQKSFKCEECKGFFYTNSRRSS HQRSHNGEKPYNCEECKG DYK RRLDLEFHQRVHTGERPYNCK
7246	37614	A	7300	2	326	
7247	37615	A	7301	166	443	

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7248	37616	A	7302	1	2692	MDPGTLQSASQGPTAINPCDYV LKRRNIQTSWQRLTPIIKWHVYI LMIGPGEKEAGRNLGIFGKWTP FPKIPAKRLRESNCPVDAQEIW LPQAFREYLGRRGNFPGRRRTC EFWEVESICSVESWELWLRQA DSGDSGKCSPDACGIIDTSGLR AGHCYLTRLWHVSGRIPPSFKL HHPGVCKFPKVGGKMTTFKEA VTFKDVAVVFTEELGLLDPAQ RKLYRDVMLENFRNLLSVGHQ PFHQDTCHFLREVEKFWMMGT ATQREGNSGGKIQTEMETVPE AGTHEEFSCQIWEQIASDLTR SQDTTISNSQLFEQDDNPSQIKA RLSIHVKTETSEGRCTCKKSFS VSVLDLHQQLSREKSHTCDEC GKSFCYSSALRIHQRVHMGEL YNCDVCGKEFNQSSHQIHQRI HTGEKPFKCEQCGKGFRRSGL YVHRKLHTGVKPHICEKCGKA FIHDSQLQEHQRIHTGEKPFKC DICCKSFRSRANLNRHSMVHM REKPFRCDCGKSFGKLSALNS HRMVHTGEKRYKCEECGKRFI YRQDLYKHQIDHTGEKPYNCK ECGKSFRWASGLSRHVRVHSG ETTFKCEECGKGFYTNSQRYSH QRAHSGEKPYRCEECGKGYKR RLDLDFHQRVHRGEKPYNCKE CGKSFGWASCLLNHQRIHSGEK PFKCEECGKRFTQNSQLYTHRR
7249	37617	A	7303	1	585	KRTAISPKDAFETRODLNEEEA AQVHGVKDPAP/ASTQSVLADG TDSAGN*ARQEPHKAAL*PIQN YQANLVNTFPYSNNSGGRG/RL MKTV/TQGSQQPSLADPASHLP VGDHLTYSNETEPVRALLPDEK KEVKPPALSMSNLHEATMPVL LDHLRETRADKKRLRKALREFE EQFFKQTGRSPQKEDRIPMADE YY
7250	37618	A	7304	1	366	

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7251	37619	A	7305	1	1265	RYRPGIPGSTISSLVEEHAPPSW EPQHQNVEATVLVDSVLRPSM GNFKSRKPKSIFKAESGRSHGES QETEHVVSSQSECQVRAGTPAH ESPQNNAFKCQETVRL\QPRID QRTATSPKDAFETRIQDLNEEE AAQVHGVKDPAPASTQSVLA\D GTDSADPSPVHKDQNEADSA PEDLHSVGTSLRL\YHITDGDN PLLASPRLFPLSGQSQRFNLDPE APSPSTQQFMMPRSSSRCSG DGKEPQTITQLTKHIQSLKRKIR KFEEKFEQEKKYRPSHGDKTSN PEVLKWMNDLAKGRKQLKEL KLKLSSEEQGSAPKGPPRNLLCE QPTVPRENGKPEAAGPEPSSSG EETPDAA\TCLKERREQLPPQE DSKVTKQDKNLIKPLYDRYRI KQILSTPSLIPTIVSQDTCMLLLC
7252	37620	A	7306	797	1390	PRMGARPRAPAAQPPAAAQR PPARPATPTACGSSAHRAPSPA RSRRSPCTPRAAPAAPGPKAAR QWAGTATRSSRPQRSARRSPRD SSRCWAISSRSKRAATACTPGA KRRVATKARGALWSKPKSKA MRLWPWCLSGRLGS*KAQEVA QDPGSDEGRGLVESGLQDEG WVPQGGEGGVAGQDASHRGSF RGALK
7253	37621	A	7307	605	697	
7254	37622	A	7308	1	1263	
7255	37623	A	7309	257	1190	
7256	37624	A	7310	394	485	
7257	37625	A	7311	21	674	
7258	37626	A	7312	277	396	GLLPGWKI*CSRVFVTSIAHVE VAELEANLPCTCKVHFDPNKL HCFQLTVTPDEGYQGGKFQF ETEVPDAYNMVPPKVCLTKI WHPNITET
7259	37627	C	7313	74	316	
7260	37628	C	7314	211	390	
7261	37629	A	7315	1	2601	
7262	37630	A	7316	1	1365	
7263	37631	A	7317	358	760	SIPLLFRKSSLSRK*CSAASIFSG SSKFKRSVNKEFNPQTTSFNV VGAQPVPISIECSLNKL RHISPV VIVGVPSLVQAFHFGRHHVV RIRELQFQTEIFHPGSNPHLGLL LAENNEACLDQENALYMYKV
7264	37632	A	7318	1	1728	
7265	37633	A	7319	1	558	

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7266	37634	A	7320	2	1884	PAGAGPGQEAGAGPGPGAVAY ATGAEEGEMKPVAAGAAVPPG EGISAAPTVEPSSGEAEGGEAN LVDVSGGLETESSNGKDTLEG AGDTSEVMDTQAGSVDEENGR QLGEVELQCGICTKWFTADTFG IDTSSCLPFMTNYSFHCNVCHH SGNTYFLRKQANLKEMCLSAL ANLTWQFRTQEEHPKTMFSKD KDIIPIFDKYWECMTTRHRPGK TTWPNNIVKTMSEKRDVFLVK EHPDPGSKDPEEDYPKFGLLDQ DLSNIGPAYDNQKQSSAVSTSG NLNGGIAAGSSGKGRGAKRKQ QDGGTTGTTKKARSDPLFSAQR LPPHGYPLEHPFNKDGARYILA EPDPQAPDPEKLEIDCWAGKPIS GDLYRACLYERVLLALHDRAM QLKISDDRLTVVGEKGYSMVR ASHGVRKGAWYFEITVDEMPP DTAARLGWSQPLGNLQAPLGY DKFSYSWRSKKGTKFHQSIGKH YSSGYGQGDVLGFYINLPEDTE TAKSLPDTYKDKALIKFKSYLY FEEKDFVDKAEKSLKQTPHSEII FYKNGVNQGVAYKDIFEGVYF PAISLYKSCTVSINFGPCFKYPP KDLTYRPMSDMGWGA VVEHT LADVLYHVETEVDGRRSPWE
7267	37635	A	7321	1	267	
7268	37636	A	7322	60	888	RGAALARTRLSVRPVGPAGTRR SHALGPRPGARSSFRRLRCELRR CMCGNNMSTPLPAIVPAARKA TAAVIFLHGLGDTGHGWAEAF AGIRSSHIKYICPHAPVRPVTLN MNVAMPWFDIIGLSPDSQED ESGIKQAAENIKALIDQEVKNGI PSNRJILG\GFSQGGALS\YTALT TQQKLAGVTALSCWLPLRASFP QGPIGGANRDISILQCHGDCDPL VPLMFGSLTVEKLT\LVN PAN VTFKTYEGMMHSSCQEMMD VKQFIDKLLPID
7269	37637	A	7323	1	1182	

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7270	37638	A	7324	1	2469	MVDRARPTVLVTEVPLKSKHT AQMGLVLTANESQPLVHETAL KNKKPQSWFPNPCVSYNRKPG LQD*GRAERPELGEQATEAALL KAPAESVRQEHRSTNT/PQTRSC CPQYFPRAGCLPSRGHDVEPQH EAGDGPCRGIRNG*KLLSSFFG QQVRT**R/CSELTpkQEFFKGS ESSNRTSGGLFGVVPAAETGD VCVYTFKELEGQTSDEEGSRLE NDFLEITDEDEKKKSTKDRYDKY KEVGEHPPLSSSPVEHEGVKLG QKSYRCDECGKAFNRSSHLIGH QRIHTGEKPYECNECGKTFRQT SQLIVHLRTHTEKPYECSECG KAYRHSSHLIQHQLHNGEKPY KCNECAKFTQSSRLTDHQR HTGEKPYECNECGEAFIRSKSL ARHQVLHTGKKPYKCNECGRA FCSNRNLIDHQRIHTGEKPYECS ECGKAFSRSSGLISHRVHTGE KPYSCIECGKAFNQNSQLIEHQ RMHRGKKVYKCKEKGKAFGLS KCLIRHQLRHTGEKPYKCNECG KSFNQNSHLIIHQRIHTGEKPYE CNECGKVFSYSSSLMVHQRT TGEKPYKCNDGKAFSDSSQLI VHQRVHTGEKPYECSECGKAF SQRSTFNHHQRTHTEKSSGLA CQEGNKEISKGPQKPPGYRLCP LQAVGGGEFGPTRVHISFLSD LKQIKVFFPGGPLMLEKQKKKS
7271	37639	A	7325	1	1596	
7272	37640	A	7326	2	3394	MAHAGGGSGSGAGGPAGRG LSGARWGRSGSAGHEKLPVHV EDALTYLDQVKIRFGSDPATYN GFLEIMKEFKSQSIDTPGVIRRV SQLFHEHPDLIVGFNAFLPLGY RIDIPKNGKLNQSPILTSQENSH NHGDGAEDFKQQVPYKEDKPKQ VPLESDSVEFNNAISYVNKIKTR FLDHPEIYRSFLEILHTYQKEQL NTRGRPFGRGMSEEEVFTEVANL FRGQEDLLSEFGQLPEAKRSLF TGNGPCMHVSQ
7273	37641	A	7327	1	738	
7274	37642	A	7328	1	399	
7275	37643	A	7329	3	223	
7276	37644	A	7330	1	1040	
7277	37645	A	7331	1	465	
7278	37646	A	7332	1	288	

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7279	37647	A	7333	109	4770	
7280	37648	A	7334	109	4687	
7281	37649	A	7335	109	4860	
7282	37650	A	7336	1	336	
7283	37651	A	7337	1	441	
7284	37652	A	7338	305	446	
7285	37653	A	7339	2	461	
7286	37654	A	7340	59	620	FQKIGL**/FIDDKDGLFTIPLAE QDCEWFAFTIPVVNNLQPAKRF HCFTDGSNNGKASYSGSKNKV FQMSYTSQAELVAVIELIEN AQLRFHTDEQLMTLFTQLQTA VRSRMHPFYITHIRAHTPLPGPL TEGNQMADRLVANAISSARHF QQHLL/THSHPPGDRSRSCRW RKKLEESGTSSHE
7287	37655	A	7341	1	1410	
7288	37656	A	7342	1	1740	MGQVWALVHSTLETFTDEEE GEYNEVTEQVCLPAKAGSAAV DLCCTKAVSLLPGESPQKVPTG AGGPLPAGMTGLLLGRSSLNIK AVQVQTGVTDSDYNGEIQIVTS TSVPWKAKPGDHIAQLLIVPKK FIEGLKEPLQVERQSSCQGLGY/ PFLMAAIVKPPPIPLKWLTDKP IWTEQWPLSKEKLEALEDLITQ QLKKGHIAPTFSWNSPVFIKK KSAEQDCEWFVFTILAVNNLQL KPAKRFWKVLPPQGNQQPIWI PSRYLKPYHKPDAAKEIPEGSQ GFPVAAMSRLTLRRTPTVTSNT HRTQPPTWGQIEKLQMAEENL RKAGQPTISNWILPRITKFKPI EGAENVFTDGSSNGKASYSGSK GPLTEGNQMADRLVAKVISNA RHFHNLTHVNASGLKRRYSIT WKEAKAIQRCPTCQVMSAAE QHLQKSAKTEAEKLVWWRD PITKSREIGKIITWGRGYACVSP GPNQQPIWIPSKHLKPYHKPDA GEKIPGESRGPPVAAMSRLTLR RMPTVMSNTHRTQPPTWGQIK KLSQMAEENLRKAGQPVTMNN LMIAVITTA FNKG
7289	37657	A	7343	1	1239	

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7290	37658	A	7344	1	777	MPQNSLEECALELGKKSLQEN VNNFPKTKLFQFLKLTNWILPKI TKFKPIEGAENVFTDGSSNGKA SYFGLKGKVFQTPYTAAQKVE LVAVIEVLTAFDMPVSMISDST YVVHSTQLTENALRLHTDEQ LMTLFSQLQTAVRICFAVMGIP ASTTT/DNAPGYTSQALATFFS MWNKRITGIPYNSQGQAIIVER MNLCLKQQLKQTEGDREYGT PQMQLNLALLTLNFLSLPKGQ MLSAAEQHLQKPAVKTEAEQLI
7291	37659	A	7345	1	1307	
7292	37660	A	7346	1	2040	
7293	37661	A	7347	1	1898	MAGAPPPAWLPHCSSISDCCAR NERGSVGVAPSKPARSAVDL CCTKAVSLLPGEPQKVPARVC GPLPAGTVGLLLGRSSLSLKEV QIHTGVIDS DYKVEIQIVVSTSV PWKAEPGERIAQLLVVPYVGT GKSEIKQTEGFGSTNKQKAAAY WVNQITDKHLTCEITIQQKKFK GLVDTGADVSIISLQHWPSMWP IQSTQFNIVGVDGSSNGKASYF GSKCKVFQMPYTSQKVELVA IIEVLTTFDMPINVISDSSYVVHS TQLIENAQLQFHTDEQLMTLFT QLQTAVRSRMHPFYITHIRARH TPLPGPLTEGNQMADECLVATA VSNARHFHNLTHVNASGLKCR YSNTWKAAKAIQRRPTCMV HSSSFTGGVNPQGLEPNSLWQ MDVTHVPSFGRLAYVHVCVDT FSHFVWATCQSGESSACVKHH LLQGFVVMGIPASIKTDNVPGY TSQALATFFSMLNIKRIDIPYN SQDVEADANADVGVDDVADA DVDAEEEVFTDADADAEDVDV EDADAERLRCNADESDLDLD VDAEMDADVDTNLDVDAAVD VDVADADVDADTDVDVDTG LNLEADLDLDVADVDVTDADV DRDADVEVAVDADATVNADV DYVDVDTDS
7294	37662	A	7348	2	565	
7295	37663	A	7349	1	996	
7296	37664	A	7350	18	260	
7297	37665	A	7351	1	594	
7298	37666	C	7352	232	603	
7299	37667	A	7353	1	1236	
7300	37668	A	7354	568	1370	

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7301	37669	A	7355	1	1800	
7302	37670	A	7356	1	498	
7303	37671	A	7357	1	3400	MDCSEKWRDPLDAVCVLPATE EPVVQGSALYLVAHHDDYCV WYSLQRTSPEKNERNVRQMRPV CDCQAHLLWNRPRFGEINDQD RTDRYVQALRTEIPLTLKGAKL QREEKEGDMPCRANILVTELF TELIGEGALPSYEHHRHLVET SLGEQVIVPPVDVESC GAPSV CDIQLNQVSPADFTVLSDVLP M FSIDFSKQVSSSAACHSRRFEPL TSGRAQVVLSWWDIEMDPEGK IKCTMAPFWAHS DP EEMQ
7304	37672	A	7358	1	687	
7305	37673	A	7359	1	660	
7306	37674	A	7360	112	474	
7307	37675	A	7361	352	441	
7308	37676	B	7362	1	831	
7309	37677	A	7363	460	612	
7310	37678	A	7364	251	496	LFVSI/WQVFH*GRRGFLVRN DCVQIWC E MISHSGFDLHFS DQ Q*/WMSISSC/DFLAA*MS SFEK CLFMSFAHFLMGLFVFFL
7311	37679	B	7365	1	729	
7312	37680	A	7366	1	774	
7313	37681	B	7367	1	516	
7314	37682	A	7368	10	504	
7315	37683	C	7369	520	1656	
7316	37684	B	7370	1	1206	
7317	37685	A	7371	677	1126	AVTLTKVCSFTPEASETTNPPG GTNNSRR TALRAVALTAKVRS FTPRGSAASFLKSVRPRTHQFRT Q*HVHQIEFSPGGLWESCPRAS SSTGDPGRPPERRGAAARKTVG VQGVGYSLPRKLCPLFSRTTYP HTSLRKDCLES DTTAE
7318	37686	A	7372	2	394	HLFIYLLVLLWCPGW PQTAG LKGSSCLSLLSNWNYPPL*AL LLGTQKLPRVWNFIMVRR IQDG VKPSVSIAEREMKSRSKSAASLL SQRDHEPTRRKKLRTHPNIRRN KLQTRHLKSCNTHCEGPWRHS
7319	37687	A	7373	1	204	
7320	37688	A	7374	1	879	
7321	37689	A	7375	139	4488	
7322	37690	A	7376	1	933	
7323	37691	A	7377	335	582	VLQLLRQH V WSCSFLLVGSWS HWLQERSCRSSQ*VLQLIKAV WTQRTQEPSWLHLVDPAPGLQ VELPASPTRYAHTPQLGG

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7324	37692	B	7378	1	3101	
7325	37693	A	7379	365	625	VAKIFSHVVGCLFTLMVVSVFAV QKLFSLIRSHLSILAFVAIAFGVL DMKSLPTPMS*MVMPRFSSRVF MVLGLKFKSLIHLELIFV
7326	37694	A	7380	994	1167	NKGGHKQMEEHSMMLMDRKNQ YRENGHTAQGNL*IQCHPHQAT NDFLHRIGKNKLASNM
7327	37695	C	7381	143	3529	
7328	37696	B	7382	54	1158	
7329	37697	A	7383	1662	1919	LLNVFALAFVLVLLIEMLGCQFW IFPAFSCRHLVL*ISLYTLL*MRP RDSGMWCLCSRWFQRTSLFLA SFRYPSSSHSGAGCSVSM
7330	37698	A	7384	63	1650	SPGHI*SSV*REIYSTKCPQEKA GKI*NSHPNITIKRTGEARANTF KS*QKARNN*DQSRTEGDRDT KNPSKNQ/CNPGAGFLKRSTKLI DR*QD**RRK*RRIK*T**KMIK GI/VTDPTEIQTIREFYKHFYA NRLKNLEEMDEFLETYTLPRLN QEEVESLNRPIITGSEIEAIINSLP TKKSPGPDGFTAIEYQRTNDKN HMIISIDEEKAFDKIQPFMLEM LNKLGIVGMYIKIIRTIYDKSTA NIILNVQKLEAFPLKTGTRQGPC LSPLLFNIVLEVLAIRAIRQEKEI KGIRLRKEVFKMFLFADDMIVY LENPIISAPNLLKLISNFSKVSGY KINVQKSQAFLYTNNRQTESQI MSELPFTIATKRIKYLGIQLTRD VKDLFKENYKPLLNEIKEDTNK WKNIPCSWIGRINIVKMAILPKV IYRFNAIPIKLPMTFFTELEKTTL KFIWNQKRALNAKTILSQKNK AGGIMLPDFKLPYKATWYWNQ NTEIDQWNKTEASEITPHIYNHL VFDNPDKNKK
7331	37699	A	7385	392	493	
7332	37700	A	7386	1	1223	
7333	37701	A	7387	386	553	KMIKGISPLIPQRYKLPSSENTINT STQIN*KI*KKWIHSSHTPSQD* TRKKLNL
7334	37702	B	7388	285	1581	
7335	37703	A	7389	1	1473	
7336	37704	A	7390	755	1042	SSYATKKEPALPSQSEAKKTKL ETSCYLTSNYTTRLQ*PKQHGT GTKTEI*ANGTEQSPQK*YHTA TTIWSLTNLTKTRNGERIPYLIN GVGKTG
7337	37705	C	7391	1	2334	

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7338	37706	A	7392	1	1539	
7339	37707	B	7393	1	2361	
7340	37708	A	7394	5071	5535	GTAFLWRRRGALRFRVSSFSVL FFPHLCGFIYFWSLMMVMYRC VFGVDVLSVC*FSF*QTGPSAA GLLEYPAV*GVSVP LLGGASQL GCSGVRGQGPT*GGSLPVLRSP AACWENHCSLQSCQTGTFKSA EVTAVFLFVCALPPEVEPTAAG
7341	37709	A	7395	1	459	
7342	37710	A	7396	3	1063	
7343	37711	A	7397	39	895	
7344	37712	A	7398	2	277	
7345	37713	A	7399	34	845	
7346	37714	A	7400	1	3399	
7347	37715	A	7401	1	3126	
7348	37716	A	7402	1	387	
7349	37717	A	7403	1	3578	RDLVVGCGGFVKSDVEINYSLI EIKLYTKHGTLYQTDCAPNN GYFMIPLYDKGDFILKIEPPLGW SFEPTTVELHVDGVSDICTKGG DINFVFTGFSVNGKVL SKGQPL GPAGVQVSLRNTGTEAKIQSTV TQPGGKFAFFKVLPGDYEILAT HPTWALKEASTTVSVTNSNAN AASPLIVAGYNVSGSVRS DGEP MKGVKFLLFSSLVTKEDVLGC NVSPVPGFQPQDESLVYLCYTV SREDGSFSFYSLPSG
7350	37718	A	7404	34	460	
7351	37719	A	7405	105	245	VSSEKVS LGVPCPAASAAASGD ASR*MATGRGGGGGGVAALPE SAP
7352	37720	A	7406	1	1289	
7353	37721	A	7407	462	5250	
7354	37722	A	7408	714	887	
7355	37723	A	7409	1	109	PLRQLLCV KR GFC*HH*HEGCQ SRLLLRCLLCSTAI
7356	37724	A	7410	1	1845	
7357	37725	A	7411	192	1507	
7358	37726	A	7412	2	688	
7359	37727	A	7413	1	518	
7360	37728	A	7414	1	276	

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7361	37729	A	7415	984	3112	MWQETFFRMENLQLIILGSP SQLHFPVIRNNQGWTLYHQWP HFLNRFSSRLSNSSLLNQLKFTC ANCKKPLQKGQTAYQRKGS LFCSTTCLSSFSHKPAPKKLCV MCKKDITTMKGTI/VLAQVDSS ESFQEFCSITSCLISL/YEEQQNP TKG\ALNKSRTCICGKLTEIRHE VSFKNMTHKLCSDHCFNRYRM ANGLIMNCCEQCGEYLPSKGA GNNVLVIDGQQKRFCCQSCVSE YKQVGSHPSFLKEVRDHMQDS FLMQPEKYGKLTCTGCRTOC RFFDMTQCIGPNGYMEPYCSTA CMNSHKTKYAKSQSLGIICHFC KRNSLPQYQATMPDGKLYNFC NSSCVAKFQALSMQSSPNGQFV APSDIQLKCNYSKNSFCCKPEIL EWENKVHQFCSKTCSDDYKKL HCIVTYCEYCQEEKTLHETVNF SGVKRPFCSGCKLLYKQDFAR RLGLRCVTCNYSQCLCKGGAT KELDGVVRDFCSEDCKKFQD WYYKAARCDCKSQGTLKERV QWRGEMKHFCQDQHCLLRFYCQ QNEPNMTTQKGPENLHYDQGC QTSRTKMTGSAPPPSPTPNKEM KNKAVLCKPLTMTKATYCKPH MQTKSCQTDDTWRTYVVPVPI VPVYIPVPMHMYSQNIPVPTTV PVPVPVVPVFLPAPLDSSEKIPAAI EELKSKVSSDALDTELLTMTD
7362	37730	A	7416	1	1071	
7363	37731	A	7417	88	2118	
7364	37732	A	7418	2	2930	
7365	37733	A	7419	1	1677	
7366	37734	A	7420	172	13329	
7367	37735	A	7421	2	946	
7368	37736	A	7422	255	933	WIEAAPQAQEVQGDGLWLPCG AAGAGGLQSARSYGTVGEASV AEHPW/CAPGGCMAGCGSLAA AASPLVPGHLP/QPTAAPSHPH RASLRVALLSGQWGLTCGQLL ASAPLLQSWAWDTRLLMCRRLL SCSSEGERIAQLLLPYLKLGS STVKRTGGFGNTNPAGKAVYW VNQVSDKRPICTVAIQGKDFEG LVDTEADVSIHINQWPQHWPK QKASIGIVGVGAA
7369	37737	A	7423	718	2385	
7370	37738	A	7424	1	180	

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7371	37739	A	7425	1	1713	
7372	37740	A	7426	1	774	
7373	37741	A	7427	2	158	
7374	37742	A	7428	1	174	
7375	37743	A	7429	252	1245	ELGECGCRQGSVSHCGRGRPL LPRVRGKRHLPRARLARQCEAL SPWGFRCFRNHHQTGFSLAGA NQRGPLAATLSGPGGEGQSAV ARLMGEKKNHPGAQYATRLSP RVGRFINAAGTTGFPTGKRAPT CWPGADIIPSCLALPRIETELM GKFDEGKLPTDPLMLGLAIET VAHDYDVVIDSAPNLGIGTINV VCAADVLIPTPAELFDYTSAL QFFDMLRDLLKNVDLKGFEPP VRILLTKYSNSNGSQSPWMEEQ IRDAWGSMLKNVVRETDEVG KGQIRMRTVFEQAIDQRSSTGA WRNALSIWEPVCNEIFDRLIKPR
7376	37744	A	7430	1	1113	
7377	37745	B	7431	56	1234	
7378	37746	A	7432	667	1048	LLLFRDLGIGTINVCAADVLI PTPAELFDYTSALQFFDMLRD LKNVDLKGFEPPVRILLTKYSN SNGSQSPWMEEQIRDAARFPV GKPVVPAALMNRPTRRGEAVC VLGARVVFLFTSETGNS
7379	37747	A	7433	1	1428	
7380	37748	A	7434	1	1125	
7381	37749	A	7435	1	756	SDRRYEWDRGPSLIIRPTIRVGP WSQTNNQTDTSQTVV/RRPFP PVIGVVFHKGGVYKTSVSVHL AQDLALKGLRVLLVEGNPQG TASMYHGWVPDLHIHAEDTLL PFYDPLMLRLAIETVAHDYD VVIDSAPNLGIGTINVCAADV LIVPTPAELFDYTSALQFFDMLR DLLKNVDLKGFEPPVRILLTKY SNSNGSQSPWMEEQISDALRIS QRRNISSKFILQSACITLTTFIST CWAIIVTQSG
7382	37750	A	7436	1	1329	
7383	37751	A	7437	1	1185	
7384	37752	A	7438	1	1065	
7385	37753	B	7439	67	1033	
7386	37754	A	7440	1	1192	
7387	37755	A	7441	1	1413	
7388	37756	A	7442	1	1176	
7389	37757	A	7443	1	1302	
7390	37758	B	7444	1169	3356	
7391	37759	A	7445	14	3974	

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7392	37760	A	7446	677	1033	RATASSISTTRPCESTSNAPSCN SPIRSRSPLPPIRPRASITLILVSM MRMVRATISCAILVSRCPAISP PLCTAFFRPICAAAGVPVFTLFTT TP*SLPLLLISAPSMPLKMELES T
7393	37761	A	7447	1558	1748	CSNASARFFAAVNPSGLGMILM *SRFIVFTKLSAIPLLSGLRTAVF FGSSPNIRANWRVSLAR
7394	37762	A	7448	1	595	LKNSKPQVVMAAAGIFLIMCG VWLGFGGVLDPTKSSGYLIVDI YNEIICMLSNRIAGLGLSIMAVG GYARYMEGTPASRAMVSLLSR PLKLIRSPYIILSAT*VIGQIMPAQ FITSASGLGMLLMVPLFPTLVSL GVSRLSAVAVIATTMSIEWGIL ETNSIFAAQVAGMKIATFFCHA HNPVASRVILSVAISGTRAR
7395	37763	A	7449	1	978	
7396	37764	C	7450	32	316	
7397	37765	A	7451	1	2465	
7398	37766	A	7452	1	1416	MIILIDAEKAFDKIQPFMLKTL SKLGTGTYLKHRAIYDKPTAN IILNGQKLEAFPLKTGTRQGCP SPLLFNIGLEDLARAIRQEKEIK GIQLGKEEVKLSLFADDMIVYL ENPIVSAQNLLKLISNFSKVSGY KINVQKSQAFLYTNNRQTESQI MSELPFTIASKRIKYLGIQLTRD VKDLFKENYKPLLKEIKEDTNK WKNIPCSWVGRINIVKMAILPR DIDQW/NRTEPSEIMPHYNYLI FDKPEKNKQWGKDSLPHKWC WENWLA VCRKLKLDPLTPYT KINSRWIKDLNIRPKTIKTLEEN LGITIQDIGVGKDFMSKAPKAM ATKAKIDKWDLIKLSFCTAKE TTIRVNRQPTTWEKIFATYSSD KGLISGIYNELKQIYKKKTNNPI KKWAKDMNRHFSKEDIHAAK KHMKKCSSLAIREMDIKTTMR YHLTPVRMAIHKSGNNRCWR GCGEIGTL

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7399	37767	A	7453	3	2272	RSTRQKVNKDTQELNSALHQA DLIDIYRTLHLKSTEYTFFSAPH HTYSKIDHILGSKALLSKCKRTE IITNYLSDHSAIKLELRIKNLTQ NRSTTWKLNLLNDYWVHN KMKAEIKMFFETNENKDDTTYQ NLWDTFKA VCRGKFIALNAHK RKQERSKIDTLTSQLEKEKQE QTHSKASRRQEITKIRAELEIE TQKTLOKINESRSWFFERINKID RPLARLIKKKREKNLIDAIKND KGDITDPTIEIQTIREYYKHLY TNKLENLEEMDKFLDYYTLPR NEEEVESLNRPIITGAEIVAIINSL PTKKSPGPDGFTAIFYQRYKEE LVPFLLKLFQSIEKEGILPNSCY EASIIIPKPGRDTTKKENFRPIS LMNIDAKILNKILAKRIQQHIKK LIHHDQVGFIPGMQGWFNIRKS INVIQHINRAKDKNHMISIDAE KAFDKIQPFMLKTLNKL/DIGR NYCKVHMEPKKSPHRQVNPKE KEQSWRHHTT*LQTLQGYSNQ NSMVLVPKQRYRSMEQNRALR NNAAYLQLSDL*QT*EKQAMG NGFPI**MVLGKLASHM*KAET GSLPYTLYKNQFKMD*RLKR*T *NHKNPRRKPRHYHSGHRHGQ GLHV*NTKSNGNKSQN*QMGS N*TKELLHSCRNYHQSEQATY KMGENFHNLLI*QRANIQLQ* TQTNLQEKNKQPHQKVGKGHE
7400	37768	A	7454	1	3020	
7401	37769	A	7455	1	3046	MVKGSIQQEELTILNIYAPNTG ALRFIKQVLRDLQRDLDSHTIIM GDFHTPLSTLDRSTRQKVNKDI QELNSALHQEDLIDIYRTLHPKS TEYTFFSAPHHTYSKIDHIVGSK ALLSKCKRTEITNCLSDHSAIK LELRIKNLTQNRSTTWKLNLL LNDYWVHNEMKAEIKMFFETN ENKDDTTYQNLWDTFKA VCRGK FIALNAHKRKQERSKIDTLTSQ LEKEKQE QTHSKASRRQEITKIR AELKEIETQ
7402	37770	B	7456	197	1917	
7403	37771	B	7457	1	1954	

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7404	37772	A	7458	1	1947	MNIDAKILNKILANRIQQHIKKL IHHDQVGFIQGRQGFNICKSIN VIQHINRAKDKNHMIIISIDAEKA FDKIQQLFMLKTLNKLIGDGT FKIIRAIYDKPTANIILNGKKLEA FPLKTGTRQGCPLSPLFNIVLE VLARAIQKEKEIKGIQLGKEEV KLSLFADDMIVYLENPIVSAQN LLKLISNFSKVSQYKINVQKSQ AFLYTNNRQTESQIMSELPFTIA SKRIKYLGIQLTRDVKDLFKEN YKPLLKEIKEDANKWKNIPCSW VGRINIVKMAILPKVIYRFNAIPI KLPMTFFTELEKTLKFIWNQK RAHITKAILSQKNKARGITLPDF KLYYKATVTKTAWYQYQNRD IDQWNRTQPSEITPHIYNLIFD KPDKNKQWGKGSFLNKCWE NWLAIKRLKLDPLTPYTKIN SRWIKDLNVRPKTTKTLEENLG ITIQDIGMGDMFMSKTPKAMAT KDKIDKWDLIKLSFCTAKETT IRVNRQPTKWEKIFTTYSSDKG LISRIYNELKQIYKKKTNNPIKK WAKDMNRHFSKEDIYAAKKH MKKCSPSLAIREMQIKTTMRYH LTPVRMAIIKKSGNNRCWRGC GEIGTLLHCWWINWMKKTWH IYTMEYYASIKKNEFMSFAGA* MKLETII
7405	37773	A	7459	1	1713	

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7406	37774	A	7460	281	2882	KPRLNMYMKNAEASRADAINW KKGY/LVMEDKMNEMKREGKF REKRIKRNKQSLQEIWVYVCRP NLRISVPESDRENGTKLENTL QDIIQENFPNLARQANIQIEIQ RTPQRYSSRRATPRHIIVRFSKV EMKEKMLRAAREKEIQTNIREY YKHRYANKLENLEEMDKFLNI YTLRRLNQEEVESLNRPIRGSEI VAIINSLPTKKSPGPDGFTAEEY QRYKEELVPFLKLFQSIEKEGI LPNSFYEASIIIPKPGRDTTKKE NFRITSLMNIDAKILNKILANRI QQHIKKLIHHDQVGFIPGMQG WFNIRKSINVIQHINRTKDKNH VIISIDAEKAFDKIQQLFLLKTL NKLIGIDGTYLKIKRAIDKPTA NIILNGQKLEAFPLKTGTRQGCP LSPLLNFIVLEVLAIRAEKEI KGIQLGKEEVKLSLFADDMIVY LENPIVSAQNLLKLISNFSKVSG YKINVQKSQAFLYTNNRQTETQ IMSELPFTIASKRIKYLGIQLTRD VKDLFKENYKPLLNEIKEDTKK WKNIPCSWVGRINIMKMAILHK VIYRFNAIPIKLPMTFFTELEKTT LKFTWNQKRARIAKSILSQKNK AGGIMLPDFKLYYKATVTKTA WYWYQNRDIDQWNRTEPSEIT PHIYNYLIFDKPEKNKQWGKDS LFNKWCWENWLAIWRKCLKLD PFFTPYTKINSRWIKDLNVRPKT
7407	37775	B	7461	1	2633	
7408	37776	A	7462	3	1336	

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7409	37777	A	7463	2	2458	SWFFEKINKIDRPQARLIKKRE KNQIDTIKNDKGDITDPTEIQIT IREYYKHLIYANKLENLEEMDK FLDTYTLPRLNQEEVESVNRPI GSEIEAITNSLPTKKSPGPDGFT AEFYQRYKEELVPFLKLFPQIE KEGILPNSFYEASIIIPKGRDT TKKGNFRPISLMNIDAKILNKIL ANQIQQHIIKKLIHHDQVGFIPG MQG\WLEVLARA/IRQEKEIKGI QLGKEEVKLSLFADDMIVYLEN PTVSAQNLLKLISNFSKVSQYKI NVQKSQAFLYTNNRQTESQIMS ELPFTIASKRIKYLGIQLTRDVK DLFKENYKPLLNEIKEDTNKW KNIPCSWIGRINIVKMAILPKVI YTFNAIPIKLPMFTFFTELEKTTL KFIWKQKRSHIAKSILSQKNKA GDITLPDFKLHYKATVTKTAW YWYQNRDIDQWNTTEPSEIML HIYNHLIFDKPDKNKQWGND LFNKWCWENWLAICRKLKLDLP FLTSTYTKINSRWIKDLNVRPKTI KTLEENLGNTIQDIGMGKDFMS KTPKAVATKAKIDKWDVIKLLK SFCTAKETTIRVNRQPTWEKIF ATYSSDKGLISRIYNELKQIYKK KTNNPIKKWAKDMNRHFSKED IYAAKRHMKKCSSSLAIREMQI KTTMRYHLTPIRMVIIKKSNN RAPGGRGGCGCSFGRLKRSCVP ALKRVADLPAQRSSSAKGETAS
7410	37778	A	7464	2	2101	
7411	37779	A	7465	196	792	GILSFAKDMNRHFSKEDIYAAK KHMKKCSSSLAIREMQIKTTMR YHLTPVRMAIIKKSGNNRCWR GCGEIGTLLHCWLDCKLVQPL WKSVMRFLRDLELEIPDPAIPL LGIYPNEYKSCCYKDTCTRMFI AALFTIAKTWEPPKCSNMIDWI K/KMWH/IYTRDTMRPKNDEVQ SLVG/TWVNWETTFSTIAVQK PTRLSH
7412	37780	A	7466	3	610	
7413	37781	A	7467	1	1986	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
7414	37782	A	7468	965	4421	TWKGTTSTSRCKIMPKYRSTRQ KVNKDTQELNSALHQADLIDY RTLHTKSTEYTFFSAPHHTYSKI DHILGSKALLSKCKRIEITNYLS DHSAIKLELRINKLTQSRSTTW KLNNLLNDYVWHNEMKTEIK MFFETNENKDTTYQNLWDAFK AVCRGKFIALNAYKRKEERSKI DTLTSQLELEKQEQRHSPSR RQEITKMRAELKEIETQKTLQKI NESSWFFERINKIDRPLARLIK KKREKNQIDT
7415	37783	A	7469	1	1674	MGQLQRNARDLQESVMSIRM MPMEYVFSRYPRVLDLAGKL GKQVELTLVGSSTELDKSLIERI IDPLTHLVRNSLDHGIELPEKRL AAGKNSVGNLILSAEHQGGNIC IEVTDDGAGLNRERILAKAASQ GLTVSENMSDDEVAMLIFAPGF STAEQVTDVSGRGVGMDEVVKR NIQKMGGHVEIQSKQVTGTTIRI LLPLTLAILDGMSSLLTHGIGQF ADVACAGPLLAELDALGKAL KEPARPMVAIVGGSKVSTKLTV LDSLSKIADQLIVGGGIANTFIA AQGHVVGKSLYEADLVDEAKR LLTTCNIPVPSDVRVATEFSETA PATLKSVDVKADEQILDIGDA SAQELAEILKNAKTILWNGPVG VFEFPNFRKGTEIVANAIDSEA FSIAGGGDTLAAIDLFRIADKNS YISTGGGAFLEFVERLTTLTQLL HDQGYVTQAIGKWHMRETTEP QPQNVGFDDFRGFNSVSDMYT AWRDVHVNPEVALSPDRPAYI NQSPLSKDDVHALRGGDQQA AD\ITPKYMADLDQRCTEYGAQ LLDKMAKSA
7416	37784	A	7470	1	3360	
7417	37785	A	7471	2	543	
7418	37786	A	7472	1387	1805	QAIAFDVQPGRGDYAGNQRRHH NQYNQHQAH*SWQRCGIGDGL ARFARHNATKPANKPGETGDR FNHQKNHGGQQDPVLHQLIEV MLVGRGGDQAVGQATLGIDTN VGLHAKV/LTDCLSWSDASPD VAALCSWSSWVPQ
7419	37787	A	7473	4088	4228	SPPSA*VKALPGPKHHGGLKPV HPIPGASLVLARRWSMFRRWG LIT
7420	37788	A	7474	332	538	

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7421	37789	A	7475	1	1983	
7422	37790	A	7476	856	964	
7423	37791	A	7477	1	1563	
7424	37792	B	7478	1	1086	
7425	37793	A	7479	372	886	
7426	37794	A	7480	2028	2368	RPPGNSLNVSRMGTRSSYSRR HSPAFLSWGKGRCHLCNKAHL LAGA*HYSFLSGSAPY*N*VNG QI**R*TAHRSTPDAPTGH*NCC S*L*CHSY*QRA*PGYRHD*CR MCC
7427	37795	A	7481	146	402	LGFLRLSEMPRKQG DYRTR/C EIRGRVEQRVGYTIEQINHMRD VFD RRYEWDHGPRLIIRPTIRVG PWSQSDYQTDDTSGTVVPD
7428	37796	A	7482	3	149	
7429	37797	A	7483	5	753	ARKVVAVAA RHKCPA/CISFSA SHRLYRYWEEEMNPAPVEAMR TFQQFIDE GNYTSGDTHTLRDP HYVEDKAHKYLVFEANTGTEN GYQGEESLFNKAYYGGGTNFF RKESQKLQSSAKKRDAELANG ALGIIELNNDYTLKKVMKPLITS NTVTDEIERANVFKMNGKWYL FTDSRGSKMTIDGINSNDIYML GYVSNSLTGPYKPLNKTGLVLQ MGLDPNTNIQTDDTSGTVVQT NNQTADTSGTMVPD
7430	37798	C	7484	182	709	
7431	37799	B	7485	1	1488	
7432	37800	A	7486	2	1034	YLISQRGLIRRSKISLQTGSQIER AFLQAPVEER*SMACSK/YSSH DLTFTNFIRFTYNIF*NHASPGIP NLLLHPRGLRAITIAVFGKQNT YIRLEPFKINVLEQITKHIEKLQC G/ECSQTTQQAWEQSAHQHQR H*SCRYPG*ARCQ*VHQARTL* DQRS*ADHEAYRKTA VRRC SQ TTQQAWEQSAHQHQRH*SCR YPG*ARCQ*L*HHSHEQQFQWP VG/CIRCGSVGSLPSSVICPLTQF QYGAEPDRKE*CQAPASKWAL LHK*HRFPQDRKAGECLLHEY EDLVPIRDTLRLFPGGRYLPRA KHVAPSEPDPTIRVGPWSQSDY QTDDTSGTVVPD
7433	37801	A	7487	2	426	
7434	37802	A	7488	138	346	RWRLQNLSFCSSC/SRIWL*RGY VFCSWKPREQSSQSPLACSAAC LTLRTQSC LGTAGQTDDTSGT MVQY

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7435	37803	C	7489	1	1290	
7436	37804	A	7490	48	439	HHHSGGLDD/HRRKILNTAYRSR KLQASC*KSAERAWKTKASLT VNGWMKKIRCKTPMCRPTVR* SIRILITTPRVPSPRS*LKPPTS CT*CIFTQPTRC*KMTTCWRCS TSRKSSGHVCVSPGSVAVTI
7437	37805	A	7491	1126	1340	KARWMLQTRKRAVRRSNWRK RNIWCAPAAICKRSTTLITSF*K PVKMACPFICAMLRRLARRC AGALPN
7438	37806	A	7492	12	960	
7439	37807	A	7493	1	1806	
7440	37808	B	7494	1	1318	
7441	37809	A	7495	1	1385	MLQIPKQQQNEKYQVPQFDQS TIKNIESAKGLDVWDSWPLQN ADGTVAEYNGYHVVFALAGSP KDADDTSIYMFYQKVGDNIDS WKNAGR VF KDSDKFDANDPIL KDQTQEWSGSATFTSDGKIRLF YTDYSGKHYGKQSLTTAQVNV SKSDDTLKINGVEDHKTIFDGE RKTYQNVQQFIDEGNYTSGDN HTLRDPHYQNTYIRLEPFKINV EQITKHIEKLQCGGVVKQLSRR GNNQHISSTYDINRADTQVRR VNNYDIIVMSNSFNGQSEHQV WIDRKAGECLLHEYEDLVPIRD TLRLFPGGRYLPRAKHVAPSEP DPEQDEQKLSCCTYRKRYRVL VGELGDEQMAALSRLGNDYRP TSAYERGQRYASLLQNEFAGNI SALADAENISRKIITRCINTAKLP KSVVALFSPGELSARSGDALQ KAF*SASPD RADSSPG*EK RATT D/SRQFGGVDTAGNNLT*NIFRI SQRRNISSKFILQ*ACITLTTFIST CWAIIVTQSG/LMQPSAHHPAR QPEHDIAFGKCSSSVSVHLA/LG SGSEGATCFARGR*RPPGNSLN VSRMGTRSSYSRRHSPAFHRS TPDAPTGH*NCCS*L*CHSY*QR A*PGYRHD*CRMCC
7442	37810	B	7496	1	3597	
7443	37811	A	7497	1	666	
7444	37812	A	7498	1	738	

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7445	37813	A	7499	1	727	MKVLIVSEFLHQDTWVGNAV ERLADALSQQNVTVIKSTSFDD GFAILSSNEAIDCLMFSYQMEH PDEHQNVRLIGKLHERQLNVP VFLLDREKALAAMDRDLLEL VDEFAWILEDADFYRRTPAVA RE*TRYPPGSCWPPLF/TAPLMK YS\DIHEY\SWAAPGHQGGVGF TKTPAGRFYHDYYGENLFRTD MGIERTSTAVSLLDHSGAFGQS EKYAAARVFGADRSWSVVVGTS GSNRTI
7446	37814	A	7500	1	744	
7447	37815	A	7501	1	250	
7448	37816	A	7502	1	850	
7449	37817	A	7503	1	1085	GNLAAGKTIQAQDRDAVGILSS RTGESMENLQKNLLPKQRRRT RETFTMSGALDVLQIKEEDVLK FLAAGTHLGGTNLDFQMEQYI YKRKSDGIYIINLKRTWEEL\LR QPRA\MPPIENPAD\VS\VISSR\N TGQVCGTVRAV\LRFLAATGAT PIGG\RFTPGT\TN\QIQASLPGS PRAFLWVT*PPGAEPALSRAS LC*PFLPLALVNPD/SPLRRYVII AIPCNNKGAHSVGLMWWML AREV\LRMRGTISREHPWAEVM PDLYFYRDPEEIEKEEQAAAEK AVTKEEFQGEWTAPAPEF/TLA TQPEVADWSEGVQGAPLVP\IQ QFP\TEDWSAQPATE\DWS*AP LAQATEWVGATTDWS
7450	37818	A	7504	1	1053	
7451	37819	A	7505	2	654	
7452	37820	A	7506	674	805	TLMQKSSIKYWQTESSSTSKSL STMIKWASSL*REIYSTKCPQEK AGKIQN*HPNITIKRTRKARANT FKS*QKARNN*NQSRTEGNRDT KNPSKN**/MPGAGFLKGSTKLI DR*QD**RKKERRIK*/IAIKNDK GDITNPTIEIQTIREYYKHLA NKLENLEEMHKFLDTYTLPRLN QEEVESLNRPIGAIEIVE*SIAY QPKKVQDQMDSQANSTRGTRR NWYHSF*TIPINRKRGNP*TLM QKSSIKYWQTESSSTSKSLSTMI KWASSLGGKAGSIYANQ

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7453	37821	A	7507	1	1577	MGDFNTPLSTLDRSMRQKVNK DIQELNSALHQADLIDIYRNLHP ESTEYTFFSAPHHTYSKIDHILG SKAPLSKYRRSEIKINCLSDHSA IKLELRIKKLTQNRSTTWKLNN LLLNDYWVHNEMKAEIKMFFE TNENKDTTYQNLWDTLKA VCR GKFIALNAHKRKQERSKIDTLT SQLKELEKQEQTTHSKASRRQEI SKIRGELKEIETQKTLQKINESR GWFEEKINKIDRLLARLIKKKR EKNQIHAIKNDKGDMSNHTET OTTIREYYKHL YANKLENLKEI DKFLETYS LPRLNQEEVESLNR PITGSEIEAIINSLPNKRSPGPDG FTAKFYQRYKEELLISNFSKVS GYKINVQKSQAFLYTNNRQTES QIMSELPFTIASKRMKYLGIQPT RDMKDLFKENYKPLLNEIKEDT NKWKNIPCSWVGRINIVKMAIL PKNWKKTTLKF IWNQKRARIA KSILSQ/IEQSWRHAT*LQTILO GYNNENSMVLVSKQRYRSMEQ NRALRN NATYLQPSDL
7454	37822	A	7508	58	330	FTENDDFQFHPCPYKGHELIIFY GCIVFHGVVYPHFLNPVYHCW TFGLVPSLCYCE*CRNKHTCAC VFIAA*FIVIWVYTQ*WDGWVK WYF
7455	37823	A	7509	1246	1522	DCLGNAGSFLVPYELGHYGHF HNIDSSYQ*AWMFFHLFVSFFI SLSSGL*FSLKRSFTSLVSWIPR YFILFEAIVNGSSLMIWLSVCLL
7456	37824	A	7510	140	577	YSMVYVMCHIFLIQSIIVGH LGW FQVFAIVNNVTINIRVHVS L*QH DL*SFGYIPSNWMAGSNGISSR SLRNRHTVFHNG*TS LQSHQQC KSVPISPHPLQHLLFPDFLM IAIL TGV RWYLIVVLICISLMASDDE HFFMCFLAA
7457	37825	A	7511	399	677	NQREQRHNIPE SLGRIQSSV*RE IYSTKCPQE KAGKIQN*HPNITI KRTRKARANTFKS*QKARNN* NQS RTEGNRDTKNPSKNQ*IQE LVF
7458	37826	A	7512	1446	1855	IYKLPWAVWPFS*Y*FFLPMS/G GVFFHLFVSSFMSLSSGL*FSLK RSFTSLVSCIPRYFILSEAIVNGS SLMIWLSVCLLLVYKNACDFCT LILYPETLLKLSISLRRFWAETM GFSRCTIMSSANRDNLISFRN

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7459	37827	A	7513	1	2982	
7460	37828	A	7514	5202	5430	
7461	37829	A	7515	2	454	
7462	37830	A	7516	2	744	
7463	37831	A	7517	1	2422	MCPILREHRGSTEGRKRRQKRLP LELTLKDDEVLAAHQEIEVAKA SPSKGNIIHFQYKGVYHDQQ DVTSNFLGAMWLISITFLSIGYG DMVPNTYCGKGVCLLTGIMGA GCTALVVAVVARKLELTAKAEK HVHNFMMDTQLTKRHCPWAA TIQPKLSFLISLPGCDYRGESAR ARPLSHPPQLGLGKDARYLRI CDRSLLCVCAAAGNAGLRPRD SPHTLLHWSRSPYFFSPKPVPP QLLGGQPAAHSRRDDLGEAGV GRGGCCFAALRGVQSEKWSGF HTVPEPAPGQGDVMPIVLVRPT NRTRRLDSTGAGMGPSSHQQQ ESPLPTITHCAGCTTAWSPCSFN SPDMPETPLQFQRGFFPEQPPPPP RSSHLHCQQQQQSQDKPCPPFA PLPHPHHHPLAHQQPASGGSS PCLRCNSCASSGAPAAGAGDNL SLLLRSTSSPGGAFRTTSSPLSG SSSSSSSSSRRGSQNLVSELTP SSHASALRQQYAQQSAQQSAS ASQYHQCHSLQPAASPTGSLGS LGSGPPLSHHHHHHPAHHQH HQPQARRESNPFTEIAMSSCRY NGGVMRPLSNLSASRRNLHEM DSEAQLQPPASVGGGGGASSP SAAAAAAAVSSSAPEIVVSKP EHNNSNNLALYGTGGGGSTGG GGGGGSGHGSSSGTKSSKKK NQNIGYKLGHRRALFEKRKRLS
7464	37832	A	7518	1	579	

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7465	37833	A	7519	1	1184	MSSANRSILEVPHLDILLQELPG VSKVVTVEVRGNWQRWLKVR DLTKGVTYFFRVQARTITYGPE LQANITAGPAEGSPGSPRDVLV TKSASELTQWTEGHSGDTPPT GYVIEARPSVFGNGSFQVSKEE NQYFSEGLTSIEVPSQQVQQEG AVAMALMVPDEGLWDMFVKD IPRSATSYTLSDKLRQGVTYEF RVVAVNEAGYGEPSNPSTAVS AQVEAPFYEEWWFLLVMALSS LIVILLVVFALVLHGQNKKYK NCSTRQGISTMEESVTLDNGGF AALELSSRHLNVKSTFSKKNGT RSPPRPSGGLHYSDIEDCNKY NGAVLTESVSLKEKSADASESE VSVGAYFRAVTISPYFCKDAGF AVRTIALGLAETAGSKADARK
7466	37834	A	7520	1	1347	
7467	37835	A	7521	512	1051	MAYCKSTPAVGLRVTV*SL SRL SLICYTFCIGAPSHLSVGSLIAT SFIVSNRPCRAPYVDTIYRLPSP LRLAGHRTLPLKPSFPRRSPPLL YYPSRPPAHYPLSPSSEPNRRY TMALTAVPYPYTSPLQAFPLH SRIPQLQLFLLTNSFTSRTPEP VQVLEILSQWKATTKWHYG
7468	37836	A	7522	352	546	
7469	37837	A	7523	1	360	
7470	37838	A	7524	3	349	
7471	37839	A	7525	1077	2142	SAVRYSVAITTADRRTAAGAIS YPTK*S*SEPIQEGQPEEQ/RAN YPNGTYPTSLRHLERLWLSAL SVKARF/YHQQYSLKKYRYKHI ADNVCQWLDEVFLRPKEMSDI HKLTFIEKRERLKNVFKSLHD VRTVEDPSGTQLEVVSNNPWD PKRQLLKWDGKTGWDIPD YSAAPPEAVPSLNNPQTFSEQK LDEALYHGAVLRVRPKAMTVA VIIAGLLPILWGTGAGSEVMSRI AAPMIGGMITAPLLSLFIIPAA YKLMWLHRRHWLCKKSARRPQ YQSGYTDDRHSRSVKASPTAG LPSLTHEQQQKAVERIQELMAQ GMSSGQAIALVAEELRANHSGE RIVARFEDEDE

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7472	37840	A	7526	116	191	RLKFTETNLYTNIYVGSIIHLN LEIIHMSLH**MDRTNINIRVQIC FCEFKSLVLLDKPGRQELIDDL NKRTDNFLTDSGISVSDWIDAA TWEVFSSLRELELLGIKNIRLAS QDLHGVLSSSETVAEDIWCRILD TVTRKGEHSRRIHSADDKSYLR PDLLEWFKQRVEDDQSRSGRKI YVKRDLPHILTPFRAPMASVCA KRKGQVLHQYSLKKYRYKHI ADNVCQWLDEVFLRPKEMSDI HKLTFIEKRERLKNVFKSLHD VSEFLGRVLLHATDPAAPRKPA YSLHAIRGKSRGRKNS
7473	37841	A	7527	1	177	
7474	37842	A	7528	1	399	
7475	37843	A	7529	3	209	
7476	37844	A	7530	1	288	
7477	37845	A	7531	2	256	
7478	37846	A	7532	414	1188	TSFLTGGKKGS\KKKVDPFS KKD/WL*YVKHPAMFNIRNIGK DVGSPTQGT\KIASDGLKGRV FE\VSLADLQHDEVAFRKFKLIT \EDVQGNCLTNFHGMDLT\RD K\MCSMVKKW\QTM\EAH\VD VKTT\DG\YLLRLFVGF\TKKR NNQIGKPF*AQ\HHRVRQIGKK MMEIMTREVQTNDLKEVVNKL IPDSIGKDIEKACQSIYPLHDVF VRKVKMLKKPKFELGKLMELH GEGSSSGKATGDETGAVERA
7479	37847	A	7533	1	1140	
7480	37848	A	7534	131	410	
7481	37849	A	7535	1	861	
7482	37850	A	7536	1	406	MWEILELPRDLLNGFAQNADS NMDNKKVQAEVALDNGELVG YYSKASAGDTQANRVWSGPPA NSNRPAEGERNTININKKDIN TKTPSVGHRHQRPKVDKTTKT R\KTRAELKILKTRVPLIFQRT AALRQR
7483	37851	A	7537	1366	1629	TQSPVQTKPTPITRGGGFLPTQ PFPVILQRQFCPE*LVAFMGS*E DVP*GSFRVSAESSIL*RAP*GA QSTCKPVNRNEKISKRIHV
7484	37852	A	7538	502	648	

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7485	37853	A	7539	1	1169	PPLLIPRQTGSGVDLQQTPTDLQ LRVLTVRRKTNKQKGHPHQNSI CTSPSSKTKDFKPTKIKRDKEG HYIMVKGSIQQEELTILNIYTPN TGAPRFIKQVLRDLQRLDLSHT IIVGDFNTPLSTLDSSKRQKV DIQELNSALYQADLTDIYRTLH PKSTEYTFFSAPHHTYSKIDHIV GSKALLSKCNRTIITNCLSDHS AIRLELRIKKLTENRSTTWKLN NLLLKDYVWHNEMKAEIKMFF ETNENKDTTYQNLWDTGKAAC RGIFIAINAHKRNQKRSKMDTL TSQLELEKQEQRHASKASRRLN QEEVESLNKPRTGSEIEAINS TKKSPGADGFTAIFYQRYKEE/ PGTIPSETIPINRKRGNTP*LIL*G QHHPDTKA
7486	37854	A	7540	1	404	MDEFLNTYTLPRLNQEEVESLN RPITGSEIVAINSLPRKKSPGPD GFTAIFYQRYKEELVPFLKL QSIEKEGILPNSFYEASIIIPKPG RDTTIKENFRPISLMNIDAKILN KIILANRIQQHIKKLIHHDQVGF PGMQGWFNIRKSINVIQHINRT KDKNHMIISTDAEKAFDKIQQP FMLKTLKKFGIDGTYLKIRIKYL GIQLTRDVKDLFKENYKPLLNE IKEDTKKWKNI PCSWVGRINIM KMAILPKVIYRFNAIPIKLPMTF LLEKTTLLKFIWNQKRARIAK SILSQKNKAGGITLPDFKLYYK ATVTKTAWYWYQKRDIHQWN TTEPSEITPHIYNHLIFDKPEKNK QWGKDSL FNKWCWENWLAIW RKLKLDPFLTPYTKINSRWIKD LNVRPKTIKLEENLGITIQDIG MGKDFMSKTPKAMATKAKIDK WDLIKLKSFACTAKETTIRVNRQ PTKWEKIFTTYSSDKGLISRIYN ELKQIYKKKSDNPIKKWVKDM NRHFSKEDIYAACKHMKKCS SLAIREMQIKTTMRYHLTPPSLL IPRQTGSGVDLQQTPTDLQLKV LTVRRKTNKQKVHHPHQNPIC PSSKTELEKQEQTHSKASRRQ EITKIRAELEKETQKNLQKINES RSWFLEKVNKIDRLRLRIKKK REKDQIDAINDKGDITDPTTEI QATIREHYKHYANKLENLEE

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7487	37855	A	7541	3	1284	SAADTQANRVWSVPPTNSNRP AAEGPDC*KEN*QKGHPHQNP CQSPSSK\PKVDKTTKMGGKQN RKTGNSKNQSTSPPPQEHSSSPA MEQRITNAEKYLKDLMEKTT AQELHDECTSLSSPFDQLEERV SVMEDQMNMKREEKFREKRI KRNEQSLKEIWDYVKRPNLPLI GVPESDRENGNKLENTLQDIIQ ENFPNLARHANIQIEIQRMPPQ RYSSKRATPRYIIVRFTKVEMK EKMLRAARDKSLVTHKGKLR LTAGKFIALIAHKGNGERSKIDT LTSQLEKEKQEQTHSKPSRRQ EITKIRAEKIEQTTLQKINES RSWFFEKINKIDRLLARLIKRR EKNQIDAINKDKGDTTDPTEIQ TTIREYYKHHYANKLENLKEM NKFLDTYTLPRLKQEEVESLNR PIKALKLRQ
7488	37856	A	7542	1	1082	MLSSVGLLLTHRRKKKSTDTIN DESLNKERDMTGNPHIFPRYQE IWQVFVSSGNNYITTATGPTAV PPLLIPRQTGSGVDLQQTPTDLQ LRLTVGRKTNKQKGHPHQNP CTSPSSKTKEIRTTIREYYKHL ANKLENLEEMDKF/H*HIHPPKT KPGRS*ISA*TNNRL*N*GNN** LTNQKKSRTRWIHSRILPEVQG GADKQRAKHE*TPIHNCFKENK IPRNPTYKEHEGPLQGEQTTS QGNKRGYKQM/DRTFHAHG*E ESIS*KWPYCPR*FIDSPSSSYQ *LSSQNGKNYFKVHMEPKKSP YCQVNPKEQSWRHAT*LQ TILQGYSNQNSMVLVPKQRYRP MEQSPQK
7489	37857	A	7543	1	2012	MNLSRHLNEVKGELLWSLEWR DPDGGIRMEVGLGGWTQRLE EEKKGNVCSHGNLEKDFYIPH LFGLQKKMDLKGVEKSCFKI YCSSHLLKTGFISEAVLCYGE GGEGDTVLTMKERWPHECIVLI QCNKGRLTPHTARYSSETKLPE ERSGSSICGSPISAVLQPLLIPR QTGSGVDLQQTPTNLQLRVLT VRRKTNKQKGHPHQKPKMSPS SKTKDFKPTIKIRDKEGHYIMV KGSIQQEELTILNIY

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7490	37858	A	7544	402	675	QGYPGTELSSAPSGPNRHLQNF PPQINRIYILLSTTSHLFQN*PHS WK*STPQQM*KRRNYNKNQL ELRIKKQTQNRSTTWKLNNLLL NDY
7491	37859	A	7545	21	428	DKTSRGTIQQHLLFTNIRCSAA SAADTQANRVWSGPPANSRDP AAEGPDC*KEN*QTERSTPKS HLYVTIHKDQRNKIPKNPTYKG CEGPLQGELQTTAQONKRRYK QMQEHSMLMGRKNQYHENGH TAQGNL
7492	37860	B	7546	1	1650	
7493	37861	A	7547	1	946	MAMPPLLIPROTGSGVDHQQT TDPQLRILTVRRKTNTQKGHPH QNPNECTSPSSKTKELKEEVGTQ RKEVKNLEKRLDEWLTRIANA EKSLKDLMQLKTMAQELQLDK TTLNFIWNQKRACIAKTILSKK NKAGGIRLPDFKLYYKATVTKT AWYWHQNRIDQWNRTEASEI MPHIYNHLIFDKPKKKQWGN DSL/K*MVLGKLASHMQKTEI GPLPYNFYKN*LKMD*RLKGG T*NHRNHRKPKQYHSGHRHG QRLHD*NTKSNGNKGQN*QMG SN*TKELL/RQQKKLPSE*TRNL QNGRKFFVQSIYLTG
7494	37862	A	7548	189	380	QTERSTQNPICTSPSSKTKGR* N HKDGEKTEQKNWKL*KAERL SSSKGMQLLSSNGTKLDGE
7495	37863	C	7549	1	2805	
7496	37864	A	7550	535	696	
7497	37865	A	7551	214	363	LLEGKLTNRKE*HQHQKQGHP HQNPICSTSPSSKTKVT*NHKDG EKT*QKS
7498	37866	A	7552	787	1056	GQKKKLMIIGINSRNHHGPQ*P ALQKMPAS*VTEIMNNHFLFCF RKKGRIKLVNSRVEHQAGSW GPWFQSLVAGQYFWTCSGPDG SPLP

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7499	37867	A	7553	1	4560	MKHTLIPRIKNACLQMSSLAVP VNSLVCLGKILEYLDKWLVD GILPFLQQIPSKESAVLMGILGIY KCTFTHKLGITKEQLTGKVLPH LIPLSIENNLNQFNSFISIIKEML NRLESEHK*TKLEQLHIMQEQQK SLDIGNQMNVSSEETKVTNIGNQ QIDKVFISHIGADLLTGSDSENK EDGALNVPPAGAKPTQQRPTD MSALNNLFGPQKPKVSMNQLS QQKPNQWLNQFVPPQVSPATG SSVMGTQMNMIGQ
7500	37868	C	7554	1	1359	
7501	37869	A	7555	272	915	YPGKQGLEWTSSKLQQTCC*GS *LLEGKRTNRKDINTKNPSVRH HHQRPKMGEKTEQKNRKLKIR APLLQQRNTAPH/HAMEQSWM ENDFDELREEGFRRSNYSELKE EVRTNAKEVKNFEEKLDEWIT RITNAEKSLKDLMEKTTA\EN YVTNAQAPVANATN*KKGYQR WTK*MK*SEKRSLEKKE*KEK KQSLQEIWVYVVRPNLCLIGVP
7502	37870	A	7556	196	494	HTDGVSVWMSFLVFSFPSNSQD PQLQVCWSLLEVHSRPLPGYQ QQRIRLEPFKINV/T*ADHEAYR KTAVRRCSQTTQQAWEQSAHQ QHIRH*SCRYPG
7503	37871	B	7557	28	303	
7504	37872	A	7558	1216	1863	HPDITIKRTREARANTFKS*QKA RNN*DERRTEGNRDTKNPSKKS VN/RRSWFFEKFNKIDRRRLARLI KKKREKNQIDAIKNDKRDITTD PTEIQTIREHYKHLANKLEN LEEMDKFLDTYTLRLNQEEVE SLNRPITGSEIAIINSLPTKKSP GPDGLTAKFYQRYKEE/PGTIPS ETIPINRKRGNPP*LIL*GLHHPD TKAWQRHYKKREF
7505	37873	A	7559	166	785	FRATSAADTQANRVWSGPPAN SNRSAAEDPDC*KEN*PTKGGHP HQNPICTSPSSKTKARQANIQQ EIQRMPQRYSSRRATPRCIIVRF TKVEMKEKMLRAAREKGQVT HKGNPIRLTADLLVKTLQARRE WGPIFNILKEKNFQPRISYPAKL SFISEGEIKSFTDKQMLRDFGTT RPALKELLKEALNMERNNQYQ PLQKHVRL
7506	37874	A	7560	1	1164	

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7507	37875	A	7561	770	2670	RRARCSCAPSSSTTLGRTGPSLA RRRACPSSAGRSWRW*ARTTPR GGRPSESGTPTFEPASSPPRGRS RDFQEGQSWVRGWQL/WTSTV GCSPHIFWCVCETCDCEGYLK GHYVAGLRRSFRLGCRERLGGS QEGKMSSGAESPELLTYEEVAR YQHQPGERPRLVVLIGSLGARL HELKQKVVAENPQHFGVAVPR APWDVKLQWAEDPGSECDKE DEEEENEGARFLEHGËYKENLY GTSLEAIQAVMAKNKVCLVDV EPEALKQLRTSEFKPYIIFVKPAI QEKRKTPPMSPACËDTAAPFDE QQQEMAASAAFIDRHYGHLVD AVLVKEDLQGAYSQKVVLEK LSKDTHWPPLVIPRQTGSGVDL QQTPTDLQLRVLTVRRKTKKQ KGHPHQNPCTCTSPSSKTKVGER VSVIEDQMKEMKREKKFREKR VKRNEQSLQEIWYDVKRPNLR LIGVPESDGENGTKLENTLQDI MRENFPNRARQANIQIQEIQRM PQRYSSRRATPRHIIIRFTKVEM KEKMLRAAREKGWVTHKGKPI RLTADLLAETLQARREWEPFNI LKGKNFQPRISYPAKLNFISEGE IKSFTDKQMLRDFVITRPALQEL LKEALNLERNNWWYQPLQKHAK
7508	37876	A	7562	181	690	QHAIVTGDAVGMDIPQEARQ YRHNQAYAYSIGDGAEDDDE RIVRFHTRCLNGRVLL*DK/IFQ RNDQAATFAAHQYPLFCSLHC* YPGTQGLEWTSSKHQQTCS*GS *LLWPGDERLWPSWEEQKKLS LPTDPDTWL*GSPQAAQGPRCV PPPGAQPLSSVTASLCHCA

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7509	37877	A	7563	2	2233	SSENILTVHEQANVESLKETKQ NCKDLDEDANGITDEGKEINEK SSQLKNLSELQDTSLQHDDEEE STVISVSEDMNSEGNVDFECDT KLYTFLSSDESQQSENEED TLCFVENSQRESLSGDTGSL CDNALFVIDTTPGMSADKNFY EEDKASEVAIEEEKEEEDEKS EEDSSDHDENEDEFSDEEDFLN STKAKLGRLTPHMAGYSSETKL PEERPGSNICCPISAVLQPPLI PRQTGSGVDLQQTPTDLQLRVL TVIKKTNKQKGHPQNPICTSP SSKTKDRSTRQKVNKDIQELNS ALHQADLIDIYRTLHPKSTEYTF FAAPHCTYSKIDHIVGSKALLS KCKRTEIITNCLLDHSAIKLELRI KKFTQNCSTTWKLNLLNDY WAHNEIKAEIKMFFETNENKDT TYQNFWDTFKAVCRGKFIALN AHKRKQERSKIDTLTSQLKELE KQEQTHSKASRRQEITKITAEL KEIETQKTLQKINESRSWFFEKI NKIETASKTNKKREKNPIDAIK NDKGDITTNPTIEIQTIREYYKH LYANKLENLEEMNKFLDTNTIP RLNQEEVESLNRPITGSEIEAII SLPTKKSPGPHGFTARFYQEYK EE/PGTIPSETIPINRKRGNPP*LI L*GQHHPDTKAWQRHNKKREF *TNIPDDHQCKNPQ*NTGKPNP AAHQEAYPP*SSGLHPWDARL
7510	37878	A	7564	3	377	DHNCATVLQPG*QSEIL*KEERE REREKKERKKERKKERKKERK KEGKQ*RGGRKKERKEKEIK KERRKGKKEKKEEKRRKERK KERERKKRRKEGRKKEYTRKA KRIHRPFEGNGSPLPAP
7511	37879	B	7565	1	834	
7512	37880	B	7566	1	915	
7513	37881	B	7567	1	666	
7514	37882	A	7568	330	793	SCWLCPGPCCPAQPQNTAPPIFE A*TPAMAERGPATAAGQLEFT GGALQTLFAVWSAAAAAEQWI LVNRKCCCLIVPLEVLSQRSTW PCIGLVMPVLPGLLRDIVHSDSI ASHYGVLLALYALMQFLCAPV LGALSDRFRPGLLASLLGAT

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7515	37883	A	7569	991	1842	IQCHPHQATKNFLHRIGKNYFK VHMEPKKGPHCQVNPKEQS WRYVKQSKKIAVYAERSRCSP GTEFAGTLILDFPSSRTAPSSRG R/P/GRLTRPGTPLRQSFQRNDQ AATFAVQQYSLFCSLCC*YPGK QGLEWTSSKLQQ/YLQLRERSS SPATEQSWMENDFDELREGFR RSNYSKLKEEVQTHCKEAKNL EKRLDEWITRITNVEKSLNDLM ELKNMAKELRDERTSFSSEFNQ LEERVSVIENQMNMKREEKFR EKRVKRNEQSLQEIWVYKRP
7516	37884	B	7570	1	2448	
7517	37885	B	7571	2379	4476	
7518	37886	A	7572	1	570	
7519	37887	A	7573	1	1404	
7520	37888	A	7574	1	474	
7521	37889	A	7575	746	1215	PNINRFLKHYREPVPKKRERNY STLWPLCPSTLNKIYTIMSYLSP ATKEYPFFLLLEQEC*AE*LLA LAVSQPLLSSTTNCLKN*MVTW NGSLIPWSPCKINLTP*/PAVVL QNRALDLLTAESGGTFLFLEE KCCCYVNQSGIITEKVKEIQGRI
7522	37890	A	7576	1	1178	MPESPTPLLGRDILAKAGAIHL NIGEGTPVCCPLLKEGINPEVW ATEGQYGRAKNAHPVQVKLK DSASFPYQRQYPLRPEAQGLQ KIVKDLKVQGLVKTCNSPCDTP ILGVQKPNGQWRLVQDLRIIDE AIVPLYPAVPNPYTLLSQIPEEA ELFTVLDLKDAFFCIPVHPESQF LFAFEDPSIPMSQLTWTVPQG FRDSPHLFHHTLAQDLSQFSYL DTLVLCPLRNQQECHQATQV LLNVLATCGYKVSQKAQLCS QQVKYLGVKLSKGTRAL/QQ*R TDRT*LSTSNCSNLRHSRGPSRG SLD*SQPQLVY*WKFFCRKRTS KRGVCSGQ**WNT*KKSPHSRN *CSAGGTNSPPSGTRIRRRKKGL IRIYMLPLILSAPYDHLH
7523	37891	A	7577	1	1338	
7524	37892	C	7578	109	231	
7525	37893	A	7579	279	346	LLRLALLLQ*QKEEWVLFCCGA
7526	37894	A	7580	260	393	VEVVILPMPVPNLPISIPARITKG RMGTLLLRGLGTT*LYKSCSV

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7527	37895	A	7581	3	2677	TKETCFIRGPKTPVPVTDWEGS LPLVFNHCRDTSVIIHPRFKGVR PRRDACLGPSPLAASPAFLGKG QAE LGPNSSSASAPPPYNLFAS PPHTWSGLQFRSVTSPPPAQQF TLKKVAGAKGIVKRLKTD TAR SPWKTPRPSRTPSFRKAERTKG LLKIH LTKLSHQLKKDWTILLP LSLLRIQACPRNATRLATGQLG YPFISQSYVLVNGFQTVEDLCE AADLRVSVADLRVSVTALKVA RLELFVPPGGLVVSLASAVKLQ TFAVLQLIKAKRWDWGTLEQG AALIGEARDAQEPTGEGVGGSG MAGCRSRDLPRGKAAKARREI ERSAGLTIKKERCIRNGYSKEK MKLIYVSHGLHVNDLQHKLTL FTKETYYTYLARDSEKQKQGYL AGLEGAHANRVNQQISDNLVV KTGALPPPYRTKGEKLYFYMSR QNCLFSVSGQLLQGFFPNGGQA APNPYALLSQIPEEA EWFTVLD LKDDFFCIP/VHPDSQFFAFEDP SNPTSQLTWTVLPQGFRHLFG QALAQDLSQFSYLDTLVLCGVL KSPHIVWELNQIDTIKNDKGDIT TDPTEIQT TIREYYKHLYTNKLE NLEEMDKFLNTYTL PRLNQEEV ESLNR PITGAEIEAIINSLPTKKS PGPDGFTA EFYQRVADV KLREE K DENMLLVPLSDLL YQVHAPIP QLPEVLAANSPTCHLDPPTITES
7528	37896	A	7582	1	459	MAVRYTDENVLRKGTREAGT MMRLRGTTTECCADFAAWDVT HDALRATGGELPGAQVMLTTT ECGRHVDFCDRA VWLPRMWG YPLALPGEMRKLYTVRMAGRD ILAKAGAIH L NIGEGTPVRCPL L/EGINPEVWKTEGQYRQAKNA RPVQVKL

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7529	37897	A	7583	3	910	YFSQPLSYDWGALFFSHAFLIM LESPTTLLGRDILAKAGAIHNLN GEGTPVCCPLLEEGINPEVWAT EGQYGRAK\NARPVQVKLKDS ASFPYQRQYPLRPEA/LTKGFQ KIVKDLKAQGLVKPCNSPCSTPI LGVQKPNGQWRLVQDLRIIDE AIVPLYPVPNPYTLLSQIPEEA ELFTVLDLKDAFFCIPVHPESQF LFAFEDPSIPMSQLTWTVLPQG FRDSPHLFHHTLAQDLSQFSYL DTLVLCPLRNQQECHQATQV LLNVLATCGYKVSQKQAQLCS QQVKYLGVKLSKGTRAL
7530	37898	A	7584	158	1272	NPAARTPFFVIKKGGRGRDIL AKAGAIHNLNIG/GTPVCCPLLE EGINLEDWATEGQYGRAKNAR PVQVKLKDSASFPHQYPLRP EAQQGLQKIKDLKAQGLVKAC NSPYNPTLGVQKPSGQWRLV QDLRIINEVTVPLYLAVPNPYIL LSQIPEEAEWFTDLKDAFFCI PVHPDSQFLFAFEDPSNPMSQL TWTVSPQGFRDSPHLFGQALA QDLSRFSYLGTLVLWPCISI/LCT *TMEQLQHRNKHHRFSRTSCF QSGNNPYLKPHLCKI*QYCRHN QLPMHQCPHDHLH*TRFI/PIML YLSPTTKEYSFFLLSEQEC*VD *VLALAVPQPLLSSTTNYLKNS MVTWNGLETPWSPCKINLTS

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7531	37899	A	7585	1	2083	MPLLQMIATPLQQSLISTEDEM DELTEVGFERWVITNFTTEEPSA LGFTPEHKGNVGHAGKGPLESS SPDPFLCGQEKQEKAGALLHRQ YPLRLEAKQGLKKIVKDLKAQ GLVTPCSSPCNTPTLAVQKPNG QWRLVQDLRIINEAVVPLYPAV PNPYILLSQIPEEAEWFTVLDLK DAFFCIPVHPDSQFLFAFEDPSN PMSQLTWTVLPQGFRDSLHLFG QALAQDLSQFSYLDTLVLQYM DDLLLVTHTSETLCHQATQALFN FLATCGYMVSKPKAQLCSQQ/R YLGLKLSKGTRALSEEHIQPILA YPHPKTLKQLRGFLGVIGFCRK WIPRYGEIARSLNTLIKETQKAN THLVRWTTVEVAFQALTQAP VLSLPTGQDFCSYVTEKTGIAL GVLQTQIRGMSLQPV AHLTK EID VVAKG*PHCLRVVVAVAVLVS EAVKIIQGRDLTVWTS HDVNGI LTAKGDLWLSDNCLLKQCALL LEGPVLRRLCTCATLN PATFLPD NEEKIKHNCQQVISQTYATRGD LLEVPLTDPDLNLYTDGSSFVE KGLRKVG YAVVSDNGILESNPL TPGTSAQLAELIALTWALELGE EK RANI/YTDSKYAYLVLHAHA AIWKEREFLTSERTPIKHQE AIR KLLLA VQKPREVAVLHCRGHH KGKEREIQENCQAYIEAKRAAR
7532	37900	A	7586	80	678	LCCNM PAAQHRERASNESRHG GCCPP/PWLLSS/APPHDAFTTPQ EAVLSAPSALPSSAATSLLSLLT PQQMFCSKTAGPKPFSSNPHPR LKAPTSSC/PL*PQAAPSGNAHC Y*GHRRGRTVPEDPGCLSPRAR PHRTSGTSSPSSLQPSRTIPPASS APKQGDAGSPPYQAVPEKNKP GATPRTCAESPKRLPRPGPKSFL

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7533	37901	A	7587	3	804	GLLQATALQPAQQI*IFL*KKEE EEEGGGGEGEEKKKKKKTEEE EEEEERKK\EEEEEGEEGEEEE EEEEKEERTGAGDSSDEGFDEI PSPGDSRQKTEGNAANIISGCD QRYEESEMDLGTGRGIVSGHRYI FTFRVSPLEAIGELLFPFSVAPA QGGLGFRVDQLALPMGAQSL ERPFCVDGGSRPPLNYAVSSVE DLLNGNNFKCPTTLRTIEITVGN LIISPRQKQLNANIGKNFNAAEN HENA\TTTRSSTVGADTHLTA
7534	37902	A	7588	3	191	SSHPVFSPRWVLSHPQSQCYT* GSGAQNL\TASPPFCVCRGDRGN HLRKDTKVEVKRKT\CW
7535	37903	A	7589	1	1899	HVGASDPDAGPGWGGLTSRPR LVT\PRSAPRGRAFGQATVGLAP VEGMCRAESSGGVSTDHSELPI GAAATMAHEIGHSLGLSHDPD GCCVEAAAESGGCVMAAAT/G VRGWGVGAAAGRLVLGTSSA AFLWSSLSFLFCKMGIMIIVSAS GWF\MLRKGGKLRQSGFSTV*R LFSE*PGEVTPTPGGAPSGRDST LGPGLLTIGASSSPVPLVV*LCA GYFPSLGSARLA\AVAKPRGGD QRSAGVGGLSLHAQCPPRAGR HPFPRVFSACSRRQLRAFFRKG GGACLSNAPDPGLPVPPALCGN GFVEAGEECYCVS\GQECRDLC CFAHNCSLRPGAQCAHGDCCV RCLLK\GALCRQAMGDCDLP EFCTGTSSHCPPDVYL\LDGSPC ARGSGYCWDGACPTLEQQCQQ LWGP\GSHPAEACFQVVNSAG DAHGNC\GQDSEGHFLPCAGRD ALCGKLQCQGGKPSLLAPHMV PVDSTVHLDGQEVTCRGALAL PSAQLDLLGLGLVEPGTQCGPR MVCNSNH\NCHCAPGWAPPFCD KPGFGGSMDSGPVQAENHDTF LLAMLLSVLLPLLPGAGLAWC CYRLPGAHLQRC\SWGCRQGPC VQWPQRWPTQGGPPGRRSPHG VGPHSHWTALAPGP
7536	37904	A	7590	2	280	
7537	37905	A	7591	1	1266	

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7538	37906	A	7592	1	458	LQQSQIFEIHSQKTIVKKCLDLF FELAEKENYKNFFFAFSKNLAK LGIHEDSTNRRRLSELLRYHTS QSGDEMTSLSEYVSRMKETQK SIYYITGSPCWCLVFFSLSCPCV EGSKLRVSSPIPSLLLTAGLDVV YCGLFYFLHFVLKLYAK
7539	37907	A	7593	1	862	
7540	37908	A	7594	3	437	IPEF/LNF/IRGVVTLGLPLNISRE MLQQSKILKVIRKNIV*EC/LFEL LSELAEDKENYKKFYEAFSKNL KLGIEDSTNRRRLSELLRYHT SQSGDEMTSLSEYVSRMKETQ KSIYYITGESKEQVANSFAFVER VPLSHLAPPAGV
7541	37909	B	7595	106	1966	
7542	37910	A	7596	453	719	ARGSKHTGLIAQWAHEQSGHG GRAGGYAWAQHGLPLTKAD LPAMATAECPICQQQRPTLSPR YGTIPW/WAWDAPGGRGCWRL QKAGE
7543	37911	A	7597	3	837	PECVIGIDILSSWQNPHTSLTG RVRAIMVGKAKWKPLEPLPR KIVNQKQYHILGGTVEISATIKD LKDTEAVTPTTSPFNSPIWPVQ KTDGSWRMTVDYCKLNQVVT PIAAAVPDV/VSLLEQINTSPGT WFEWSPK\KALQQVQAAVQAA LPFGPYDPADPMVLEVSADR DAIWSLWNAAGESQRRPLGF WSKALLSSADNYSPPERQLLAS YWALVETERLTVGHQVTLRPE LPIMNWVLSDPSSHKVSGAQQ RSIIKWKYIHDWVRAGPEGT
7544	37912	A	7598	1	399	
7545	37913	A	7599	126	392	ARGSKHTGLIAQWAHEQSGHG GRAGGYAWAQHGLPLTKAD LPAMATAECPICQQQRPTLSPR YGTIPW/WAWDAPGGRGCWRL QKAGE
7546	37914	A	7600	1	1677	
7547	37915	C	7601	37	465	
7548	37916	B	7602	1805	2542	

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7549	37917	A	7603	3	865	VIPTTSQFNFPWPVQKTDGSW RMTVDYCKLNQEENFNQVDR MTHSVDTTQPLSPATHVITQWA HEQSGHGGRDGGYTRVQQHGL PLTKADLATAGKVQKAV*AL N*HSIYGTLSLIARIHRSRNQGV EVEVAPLTISPSDPPAKFLLPVP PTLRSAGLEFLVPEEGMLPSGD TTVPLNWKRLRPPGHFGLLPPL HQQANKGRSPHSRERGTSVFA SSNSQPVTALNNEPAGPNKRDI GKAKGLKFHHPGPHRQERDML E/SML*PWGYPVGKQWNHLIK KQGRH
7550	37918	A	7604	3	857	VTASLSPVVATSPQPMLPSDFP PLSEEINPMLPEATVIASPKEIAR QDNVDSPQEPPTPQFSSRPITR LKSQWAPRGPECVIGIDILSSW QNPHTSLTGRVREGYMGVKA KWKPLELPLPRKIVNQKQYCIP GEIAEISTTIRDLKDTGVVIPTTS PFNSSIWPVQKTDGSWRMTVD YCKLDQVVTPIAAAVPDMVSL VKQINTSPGTWQHITHLDVLLW RIYQVTQKAASFEWGPEQEKA LQQVQAAVQAILCHLGHMTQQ IQWCLRRNGEMCDYILIYGL
7551	37919	A	7605	1	608	MAPGMVPIPPGKYHSPKKLIY STPPKPGTYGISDLSQYPTSAK AEPVPTHKNPRRESPIHSSPSSF TDG/PSPNSPGDARHPQNKTS RGRPAPRQRPVPTTITTPAPPARS PNSAHSAPFRDLPFRAEKGTA ARVPREPHSPAPPKNKGSQPP AGELLQRGARTTLPRILGTAPG PHLPGCSAPPAP*RPAAPIGL
7552	37920	A	7606	179	544	HTRLHSHPQLRGFPSWLFHSVSI RSPASGHLEFPSFARSSGSGSTS PLSFGAMTTEKQALGGRAAFPP KYK*AQGAAACFVLTSQQQPS WQ*GVTVTATGSPMHRGTFWH SCTGTPGSGDR
7553	37921	A	7607	90	653	VPGERPRGQSGPQVLPYGPTWC SSNTPEPQSLRAPQ*LQVPVPLQ SRGQR*QPQMP/VRSQPKAP*V QMPPTPSSAKGPHLDGVRVPA ANPE*PTAGPTRAAILRATPAPS LPMPGTNRPSRGNLSQDSAPA SDAGWPPTAEVTCPPWSREN PQRNL*AHRPQGPRPVPGTERR NGRGGAGCRQL

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7554	37922	A	7608	1	804	
7555	37923	A	7609	28	682	TTCEMSDLEDETQQLSAHG/T LAALQEFYAEQKQKQIEPGEEDDK YNIGIIEENWQLS\QFWYSQETA LQLAQEAIAAVGEGGRIACVGS P*CLPET/HESCAEKTFISIYIFEY DKRFAME*KEILIFYDYNPLD LPERIAAHSFDIVI\ADFPYLSG\ ECLRKTSETVQVLTRGKILL\CT GAHHGRTGSRTPLE*RCARLFP RHTRNFGKWSFRLVYVNL
7556	37924	A	7610	1	611	MAPKAKMEAPAPPEAEAKVKA LKAKKVVLKGVHSH/KKKKKI RTSPTFR*/PLRLRRQPKYPWES VPRRTSTQISSGERPLENKQPRY PRESSPPPGEQAPKYPPEERSPG ETRLDHLCLSIKFPALTH*VLPM KKIEDNNTL\VPLVNVKANKH\ QIKQAVKKLYD\IDVAKVNTL\ RPDGEKNGICSDLAPDYDALG CLPTKFGII
7557	37925	A	7611	1	1035	DKDSLCDCKTSCSYNCSKPRS SWQDQDISSGTGLHSRLTLANT GKESKTVQASLDQQLGRLLSVS LRLGVEPSLQSSGNLLVSLLSR FITYKVTIVEWVKTYALGLDLK KSERPGFESELHSHNSCECAVS HLKPVHLRVSPMGHSEYYLVT TADYSEANGSQSAGDEFFQTQS FPSRQQALFRPKIQITIREYYKH LYANKLENLEEMDKFLNTCTL QRLNQEEVESLNRPITGSEIEAI NSLPTKKRPGPDGFTAKFNQRY KEELVIYKKFQIPCIPELNSTIS ANSTNADTCTPKYVTFNSKGT AQNADSDSAGLE/CEPDVLHI** SLRLGVEPSLQSSGNLLVSLLS RFITYKVTIVEWVKTYALGLDL KKSERPGFESELHSHNSCECAV SHLKPVHLRVSPMGHSEYYLV TTADYSEANGSQSAGDEFFQTQ SFPSRQQALFRPKIQITIREYYK HLYANKLENLEEMDKFLNTCT LQRLNQEEVESLNRPITGSEIEAI INSLPTKKRPGPDGFTAKFNQR YKEELVIYKKFQIPCIPELNSTI SANSTNADTCTPKYVTFNSKGT AQNADSDSAGLEWSLMFCISD KVSGDDDDADA VDS

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7558	37926	A	7612	3	573	KEETFSAWYVDGRVLVVIVTF GIILPLCLLKNLGYLG\YTSGFSL SCMVFFLIVVIYKKFQIPCIVPEL NSTISANSTNADTCTPKYVTFN SKTVYALPTIAFAFVCHPSVLP YSELKDP\SQKKMQMVSNISFF AMFVMYFLTAIFGYLTFYDNV QSDLLHKYQSKDDILILTVRLA VIVAVILTVPV
7559	37927	A	7613	1	831	MSELEDRLFENTQSEESKGKRI KKNEVCLQDLKYSKLRANLRD TGLKEEVIIYKKFQIPCIVPELNS TISANSTNADTCTPKYVTFNSK KKMQMVSNISFFAMFVMYFLT AIFGYLTFYDNVQSDLLHKYQS KDDILILTVRLAVIVAVILTVPV LFFTVRSSLFELGLRKQRFNLW PSIPVVTICILLVINLVGDLHTP P*RIFFGVVGSYILLNMLIFILP/S IFFILKITDQDGDKGTQRIWAAL FLGLGVLFSLVSIPLVIYDWACS SSSDEGH
7560	37928	A	7614	1	1118	FNCEIFYSF/SYGDEEISKTFALN ERRGEIKIIRKLD FEKIVSYQVDI KASDGAGLSGKCTVIIQVVDIN DNAPELTMASTSPIRENSPETV AALFSIQDRDS\FALRSLDYEAL QEFEFRVGASDPGFAPALSSEAL VRVLVLDANDSSLFVLFPLQN GSAPCTEL\IPGRAAE PGYLVTK QLLKATEPGLFGVWAHNGEVR TARLLSERDATKHRLVVLVKD NGEPPRSATATLHVLLVDGFSQ PYLPLPEAAPAQAEADLLTV YLVALASVSSLFLLSVLLFVA VRLCRRSRAASVGRCSVPEGPF PGHLVDVSDTRTLSQRYKYEVEF LTRGSGTNEFKFLKSVIP/QASG RCE*WEEKSNFVNGFGFN
7561	37929	A	7615	1	764	TRPGAHGASLTDLANLSEGVSL AERGSFGAMDDPFKNKALLFS NNTQELHPDPFQTEDPFKSDPF KGADPFKGD PFQNDPFAEQQT STD PFGGDPFKESDPFRGSATD DFFKKQTKNDPFTSDPFTKNPS LPSKLPFESSDPFSSSVSSKGS DPFGTLD PFGSGSFNSAEGFAD FSQMS/KGKSTPVSQ LGSADFP APDPFQPLGADSGDPFQSKKGF GDPFSGKDPFVPSSAAKPSKAS ASGFADFTSVS

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7562	37930	A	7616	1	817	MGFCHVGQASLKLLASDPFGT LDPFGSGSFNSAEGFADFSQMS KTDQPVRSELLKIGTAARLVTR LDPLVSGPH\TR*PELTVALVPD SCRASPDAGSVVGAHL*GLGTT GAADGGTPNSNRSFVLGVIIIV WSMCQLYLVP PPPSGPFTSSLG GAGFSDDPFKSKQDTPALPPKK PAPPRPKPPS/GHRLPVPDGGGP GPPCSP/DPE*QQMPWDPVWGA RGSPRPSCPGPRKCRMCVVP RV IQHPSLLLPSLVGRRSQPQIWRS HPMPAAPP S
7563	37931	A	7617	3	1039	GSLMFQQVPMVEIDGMKLVQT RAILNYIASKYNLYGKDIKERA LYAMTHDDEAELRTPAAACKL *SECQFRTRVDAVRTMMIP/AFT QVLKSHRQDYL VGNKLSWADI HLVELFY YVEELDSSLISFPLL KVKLLASSVKPVPLPSALRWPA HAVAQNI VTSWLTGGRFIELKT VQILDRLELEKPCIDAEDCFNT EWSTEFTLLKAWDEYLKAWFA LHLEAMFQPSDSGKSFIFNMS VGYNLEGQPLNPKNYP SQGP RVLKSHRQDYL VGNKLSWADI HLVELFY YVEELDSSLISFPLL KPTHVDNTKKGSHPHMCAYT DYVNNPNDRMPQREITFVS
7564	37932	A	7618	2	698	NQKTVTMAGKPKLHYFN GRGR MEPIRWLLAAAGVEFE EKFIGS AEDLGKLRNDGSLMFQQVPMV EIDGMKLVQTRAILNYIASKYN LYGKDIKERALIDMYTEGMAD LNEMILLPLCPAEEKDAKIALI KEKISRYFP AFEKVLQSHGQD YLVGNKLSRADISLVELLYYV EELDSSLIS\NFPALLKALKTQNP ATLPHG*RSFLQPGSPRKPPAD AKALEEARKIFRF
7565	37933	A	7619	102	825	RNLQETAIMAEKPKLHYFNAR GRMEPPRWLLAAAGVEFE EK F IKSAEDLDKLRNDGYLMFQQV PMVEIDGMKLVQTKAILNLHLP ANYNLLMCKDIKGREP*FDYVF *EGFSQILGLN*SSFLPVC\PPEE KDAQALPLIQEKTKNRYFP AFE KVLKSHGQDYL VGPTSLSRGW TFIWWELLYYVEGA WTPRLISS FPLLKALKTRISNLPTVKKFLQP GSPRKPPMDEKSLEEARKIFRF

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7566	37934	A	7620	2	1256	CHCGPP/VKVEAYGSQVLKGVLAQVQLTVGPVGPRTHPVVIFPV PECIIGIDMLSSRQNPHTGSLTG RVWTIMVRKAKWKPLELPLPR KIVNQKQYHIPEGIVEISATIKD LKDAGVVIPTTSPFNSPIWPVQK TDGSRWMTVGYCKLNQVVTP AAAVPDVVSLLEQINTPPGTWY AAIDLANDFFPIPVHKAHQKQF AFRWQGRQYTFTVLPQGRWEI NMTKIQQPSTSVKFLGVQWCG ACQDIPSKVKDKLLHLVPPTTK K/EAQCLSGFRREHPIHLPIYRV SRKAANFEWSPEQEKALQQVQ AAVQAAWPLGPYDPADPMVLE VSVADRDADWSCWQASI/GHK VGHAQQHSIIKWKWYIRDWAR ADPEGTTKGQGQRRWWQLAE RQDSRDREAAIGERQETAVGKT ARDGEAVCD
7567	37935	A	7621	1	518	MTVDYCKLNQVVIPIAAAVSD VVSLEQINTSPGTWYAAIDLA NAFFSIPVHKAQQKQFAFSWQG QQYTFTVLPQWYINSPALCHNL IRRDLDCFSLPLDITLVHYIDDI MLIGSTIKWVVHSS/DSIIKWKW YVHDWARAGPEGTTNGLAG*S GTCKKHEWKTGDKGIRGRG
7568	37936	A	7622	1	696	
7569	37937	B	7623	1	1014	
7570	37938	B	7624	1	837	

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7571	37939	A	7625	1	2592	MVRKAKWKPLQLPLPRKIVNQ KQHRIPGGTVEISAITKDLKDA GVVIPTTSPFNSPIWSVQKTDGC WRMTVDYCKLTQVMTPIAAV VPDVVSLKQINTYPGTCKIFLG VQWCGACRDI/PSKV KDKLLHL APPTTKKEAQLVGLFGFWRE HIPHLGVLLQPMYQVTRKAASF EWGLEQEALQQVQAAVQAA LPFGPYDSADPTVLEMSVADRV AVWSLWQAPIGESQWRPLGLW SKALPFSADNYS PFERRLLACY WALMETEGLTMGHQVTMQPE LPIMNWVLS DPSRHKVGHAQQ HSIIKLK WYICDQARA VEGTC\ *LNKEVAQMP/MGTTRKWTAA ALQSLSGISLKDSGEGKSSQWT ELQAVHLVVHFAWKEKWPGT WKKHDWKTGDNEIWGRGIWM DCSEWSKTVKIFVSHAHEPSGH GGRDGGYAWAQEHLSFTKAD LATGIVECPICQQQRPTLSPRYG TIPQGQTFILTGINTYSIYGFAYP AHNASAKITIRGLTECLIH HHGI PHS/IVSD*GTHFTAKDVETRIH RPRNQGV E VEVAPLTITRSDTL AKFLLPVPTTFRSANLEVLLLE GGTLPPGDPTTIPLNWKRLRPR GHFGLPLPLSQAKKGVSVLA GVTDL DYQDEF SLLLHNRVTA AFPSLLHSS EAYLDNMIEKANK CHVEGV D HVSDPAQRRECDRH
7572	37940	A	7626	20	238	
7573	37941	A	7627	3	229	
7574	37942	A	7628	1086	1369	ETGMLPLRLLPFLSDFAGPLH TSIMPTRRFCSKSPT*HTLATAL SQGLS*GT*NEASLTKEKVGKN RCRYSPSYPPSGIREGKAQLCFY THWK

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7575	37943	A	7629	1	1805	MSGRSRGRKSSRAKNRGKGRA KARVRPAPDDAPRDPDPSQYQS LGEDTQAAQVQAGAGWGGLE AAASAQLRLRGEEAACRLPLDC GLALRARAAGDHGQAAARPGP GKAASLSERLAADSVFVGTA TVGRPKNAPRVGNRRGPAGKK APETCSTAGRGPQVIAGGRQKK GAAGENTSVSAGEEKKEERDA GSGPPATEGSMDTLENVQLKLE NMNAQADRAYLRLSRKFGQLR LQHLERRNHLIQNIPGVFSGQAF *NHVLLASFLNSQEKEVLSYLN SLEVEELGLARLGKIKFYFDR NPYFQNKVLIKEYGCGPSGQVV SRSTPIQWLPGHDLQSLSQGNP ENNRSFFGWFSNHSSIESDKIVE IINEELWPNPLQFYLLSEGARVE KGKEKEGRQGGPKQPMETTQP GPLSFVWVAVSPSWLPGQQGP QELPVDRGPLPVHETHTYPPQL SRNPTGCQTDGRAGLPVTPCDK KALPCAQCFVSHLLYCMGLQP RQKEKINPEVSSITNVAPKDME KVHAGALDKPMCGRQGKESQ GATHHATPSAISPAPSHPLGSSE TLDIDGLAHFLEHSQINPSLLSR VLIQRQHLRHVAVTNG
7576	37944	C	7630	66	206	

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7577	37945	A	7631	3	1643	VQASQAEADQQQTCLKQLQ\SV QLSRL*KQAIELREAVEQHKVK NNDLREKNWKAMEALATVAEQ VACKEKLHSWTQVAKES/ERNQ LCLIEAQTMEALLALLP\ELSVL AQQNYTE\WLQDLKEKGPTL\L KHPPAPAEPSTGTWAFQV*GEA E\ETQSTICRAEF\QYRSILGGD GRALLRDLQKSVEEEEQV\WR AKVGAAEEELQKSRVTVKHLE EIVEKLKGELES\SD\QVREHTL HLEAELEKHMMAASAECQNYA LAEVAG\LRQLLLE\SSQLRLPP KNRNPQKTEPMSFALGQASS*V KLKSHVED\GDIAGAPA\SSPEA APQPSRDPRSA*RTQLELDQKPI PWRMRQTTSRQKLHGSPFE\EA SDLRACSVYKEGFWEKLPHSA APPRSFFRNRRRAFTA*RRDLEK RGRSLTSD\LGRARPRRLQELSE RRTQEQLGKGRTRVKKLQE\Q LAEKAEDGSSSKEGTSVLSFLFG KKKLLFQLYQNALTHSFTIKPT NLHSVYPGPNFPVLREKAHEET SLFRRPQEVRTFPGGPILLNGTC
7578	37946	A	7632	3	247	
7579	37947	A	7633	3	389	GQEFSPKVY/FVNQTMGN/SCG PIGLFNAVANNQDKLGFY\GP LLNQFLF*NR*KCPPKDRAKCF ER\NEAIRAAH\DAVDKEG\QCR VDDQGEFPFLFCLQNVDGPPSM NLDG\RMPPFRGPMAPSFRTP

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7580	37948	A	7634	1506	3135	RGLGGGLAEQELQPWSPERSPV HNN/RM/QEKS LKDL MELKTM AQELRDECTSLSSRF DQLEEKV SVMEDEINEMKQEEKVREKRIK RNEQSLQEIWDYVVKRPNLHLIG VPESDRENGTKLENTLQDIIQEN FPNLARQANIQIQEIQRMPQORYS SRRATPRHIIVRFTKVEMKEKM LRAAREKEIQTTIREYYKHLTY NKLENLEEMDKFLDTYSLPRLN QEEVESLKR PITGSEIGAIINSLP TKKSPGPDGFTA E FYQRYKKEL VPFLLKLFQSTEKERILPNSFYE ASIILIPKGRD TTKKENFRPISL MNINAKILNKILANQIQQHIEKL IHHDQVGFIPGMQGWFNIRKSI NVIQHINRTNEKNHMIISIDAEK AFDKIQQPFMLKTLNKLIGDGT YLKIVRAIYDKLTANIILNGQKL EAFPLKTGTRQGCPLSPLLFNIV LEVLARAIRQEKEIKGIQLGKEQ VKLSLFADD MIVYLENPIVSAQ NLLKLISNFSKVSGYKINVQKS QAFLYTNNRQTESQIMSELPFTI
7581	37949	B	7635	1	594	
7582	37950	A	7636	434	744	TLACLARLGKFSWIISCRVFSNL VPFSPSLSGTPIRRRFGLENRVT ATRI LRFS DRLKKRR TTRLYPTP GSEGPTPTESR*LLAQQSEIKLQ GGSEAGGGAPA
7583	37951	A	7637	1	1077	
7584	37952	A	7638	1	348	
7585	37953	A	7639	1	831	
7586	37954	A	7640	275	457	LIAYQPK*AQDYMDSQLNSTRG TKKSC*GRL*GSGVIHIGSMPVP TRTAGPLPFFAGPCR
7587	37955	A	7641	341	504	ILRFSDRLKKRR TTRLYPTPGSQ GPTPRESR*LLAQQSEIKLQGGN EAGGGAPA
7588	37956	B	7642	1	627	
7589	37957	A	7643	121	375	DGQQLI ALHRLALRELQQAVH AGLPQQA KILFDGGSEIGKIH*L RCAHCPLSSRET CRASCINESAT RGERPFAYWAPGWFFFHQ
7590	37958	A	7644	3	479	
7591	37959	A	7645	382	642	
7592	37960	A	7646	273	1464	

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7593	37961	A	7647	76	1763	IFGITRFLPFIYQKIHIFSKEQLPD LHSHFSDLNLEAHMYASQWFL TLFTAKFPLCMVFHIIDLLLCEG LNIIHFVALALLKTSKEDLLQA DFEGALKFFRVQLPKRYAEEN ARRLMEQACNIKVG VYTGTTEL Q*DFSLDSL VSWDSSCCCGK ASWQDDGRNLHYGSL*RPCFQ PAAR*RLPH*SGGHQQAQVYG TN\KKLKKYEKEYQTMRESQL QQEDPMDRYKFVYL*VTPAVA FILGIFIRS*EKERGKRKWLSTF KNETKRKNGKVLF*LCMSYPQ RLLAGELFQD*HKDVSNLPLSV ENVKNTNSLGRKNKNHKAREN RRLQEASMRLEQENDDLAHEL VTSKIALRNDLDQAEDKADVL NKELLTKQRLVETEEERKQ EETAQLKEVFRKQLEKAEYEIK KTTAIIAEYKQICSQSTRLEKQ QAASKEELEVVKGKMMACKH CSDIFSKEGALKLAATGREDQG IETDDEKDSLKKQLREMELELA QTKLQLVEAKCKIQELEHQRG ALMNEIQAAKNSWFSKTLNSIK TATGTQPLQAPVTPQPPKEST
7594	37962	B	7648	1	618	

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7595	37963	A	7649	1	2375	MAGAPPPASLPPCSLISDCCAIN QRDSVGVPRSPKPGAGYNLVVR RFLSLLEKRSIPVGVTRFSRCRP SPLSLTRKGNLTPCASRIINMH FQAFWLCLGLLFISINAEFMDD DVETEDFEENSEEIDVNESELSS EIKYKTPQPIGEVYFAETFDSGR LAGWVLSKAKKDDMDEEISY DGRWEIEELKENQVPGDRGLV LKSRAKHHAISAVLAKPFIFAD KPLIVQYEVNFQDIDCGGAYI KLLADTDDLILENFYDKTSYIIM FGPDKCGEDYKLHFIFRHKHPK TGVFEEKHAKPPDVLKKFFTD RKTHLYTLVMNPDDTFEVLVD QTVVNKGSLLDVDVPPKPPKEI EDPNDKKPEEWDERAKIPDPSA VKPEDCALGLELWSMTSDIYFD NFIICSEKEVADHWAADGWRW KIMIANANKKKHKDTEYKKTDI CIPQTKGVLEQEEKEEKALEK PMDLEEEKKQNDGEMLEKEEE SEPEEKSEEEIEIEGQEESENQSN KSGSEDEALAEQPREPGVPGP IPPKRPSRSPPEPRAAKRLPTQE LRGESYTMSASGTARGPSPKER LGLTTKTGEKEVAQGFCREPGL RRPPNAQARDRSSRAPATHRKE LKPEREHISCSRSHIRYQEWVSL RDTVHRNLVLDTKRHPALILVE YKERTSSPATEQSCMENDFDEL REEGFRRSVITNFSELKEDVQT
7596	37964	A	7650	914	2786	
7597	37965	B	7651	1	2369	
7598	37966	A	7652	333	752	MSYVSRYGCGGRKNVATVSKG WAGSLAWPGGFPRKVKGGS WRPSGGV/DVAAPVRARLALL SGPIASESPLTTNPHSHSARRPR TYI/GHAPALRVTN/PESFSYWG TRGPSATMACDGLTRTGHS RARSPLLARS
7599	37967	A	7653	1	177	RPLPSRPHAAPPGHHTISSGPCG HRKFSPKAGDSNTPTRSRPRV SCALPPDVRGSWLS*KWNQIW YHTLPQPQENTPKSQENKPKSK PQPTQR*TRGPWPSSRCRVRSG /THRRPGLFLS*KQ/PSESIGHSR ALSAFTPAEMISTLPPPTSLSPL AARAAPPNG*SPKAGDSNTPT TRSRPRVSCALPPDVRGSWLS

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7600	37968	A	7654	1	1430	MQDTCSEIISPADFPTFSSSLKIR FSTDSPSQIFKKHC IQIVLILLP KNSYTRRLVSNQMYLESFEH QCRKTHILCKRTAGSGPFCSCPT GQPRHNSSASKCPASERGLCLK/ PKSKREKREPGPVAPAPLHAAP SSPGLGAPQLR*PGRTRSFGRD HVGSPGPPRAGPRLFAPRPVLS RCSANPSGSPHTQSPKQSSTGQI SGRADQVCGCWIRKRGVPGAA RGSPGCARTCHSRGHPHAAPFP QCNSLAPSAPAGLWRTQNAGP SG/HAQPSCPPPVL*PPHPHP*G LSFSSCSRSWVPNTTP/EPREGE GQVPGRRASAPGASFSAPGT/P RAPQPLPHFPVAQSPPAAVAA SSECKREAARRSPGASALHLPP KSARPRQAPCPTLTDGGHIFPAS AARP*HKGHQTAEGKNPGRAD TSTSPFATFPFISGGEEKSRSPVL PERTRQREEAPGPPSSPLRGLW LTFWFVFL
7601	37969	A	7655	1	609	
7602	37970	A	7656	3	649	AKD/ELHIVEQGHDIRGRSIKIT/ LATLKMS/VQPTFS/LGGFEIQPT VV*GLKCVSGPCHISGQHLVA/ VEEDAEESEEEEEENVKLLSISER RSAPGVVSMVPQKKVKLAAD EDDDDDDEEDDDDEDDDDDFD DEEAEEKAPVKKSIRDTPAKNA QKSNQNGK\DSNPYSHPRSQG\ QDPFRKQEKTPKTPKGPSSVE DIKAKMQASIGKKRIEVLGTY
7603	37971	A	7657	1	1013	PWCDSVLRGCSLEQRSFISVRL SYLSACRHPMEDSMDMDMSPL RPQNYLFGCELKADKDYHFKV DNDENEHQLSLRTVSLGAGAK DELHIVEAEAMNYEGSPIKVT\A ATLKMSVQPTVSLGGFEITPPV V\RLKCGSGPVHISGQHLVA\ EEDAEESEEEEEEDVK\LLSISGK RSAP\GGG\SKVPQKSKTCML MKDDDD\DEED\DEDD\DDD DF\DEE\AEKAPSERNLRYDT PS/AKNAQKSNQNGK\DISKPSS TPR\SKGTRIPSKKQEKTPKTPK\ GPSSVEDIKAKMQASIEK\GGSL PKVETKFINYVKNCSRMTDQE A\QDLWQWRKSL

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7604	37972	A	7658	9	271	GRVCKALWHS DWHTARVLCIN STTTITASCNP/RHTARRSLTTP *MCRLENWTKNLLFNGPVPVL VMSLLFIASVFM LHIW GKYTRS
7605	37973	C	7659	189	500	
7606	37974	A	7660	5	291	ATPSPSPPG/VPT*RPELLGPRR ERLLGPEGS/PGGGALPGVPPSR FVRTASSTLFLPPSPRPAFPSSIP LVPSPPRHCARSRETWPRTLRI SAP
7607	37975	A	7661	1	431	LALQFSFLQNRQGLNLLIAEKG RLCIFLNEECCFYLNQSGLVYD NIKCLKDRVQKLANQANNYAE PPWALS\NWMSWVLPILSPLIPV FLLLLFGPCVFCLVSQFIQNR AIANNSI*QMLLLTTPQYQPLPQ NLSSVESLPL
7608	37976	B	7662	41	1547	
7609	37977	B	7663	74	298	
7610	37978	A	7664	3	647	ELWTRGPRKRQNGSSKPLWLL YGESGAQKSVEVTKPRLLWP QWQHRRARRPCLQQAPCSSRPH APASLPPSSSPTARDTKHRAQV KTTDSGARRRDGRVLGVLEVS RSIADGQYKRCGVTSVPD\IRR C\QLTPQ*PGSILLACDGLFKVF TPEEAVNFILSCLEDEKIQTREG KSAADVRIYEAACNMLANKA VAAGARPDNVTVMVVRIGH
7611	37979	B	7665	1	1302	
7612	37980	A	7666	3	1268	SCARVAAWGGKLRRGLAVSRQ AVRSPGPLAAAVAGAALAGAG AAWHHSRVSAARDGSFTVSA QKNVEHGIIYIGKPSLRKQRFM QFSSLEHEGEYYMTPRDFLFSV MFEQMERK\IQSRS*QKRFIEDT LSGIPTAGCGSSFFQRPWAIKGL ISYNRVIFFFALQSSLNPIPGFH VAFKMLDTDGNEMIEKK/ENFL SCRRS*VNKMT*LTVKTNETWI SGSNK*KNLKL/DTTLQMRFFG KRGPRKLHYKEFRF/WENLQT EIQGN/VEFLQFSKGLSFMKR TLQSGYFFSTNTENKDIYWK REKLSAGESISLDEVKAFCHCT RQIGTLCY/SAMQMFTLAHRPV RLAEFKRAVKVATGQELSNNIL DTVFKIFDLGDDECLSHEEFLG VLKNRMHRGLVGTSTSEYTRIL EVCEERKH

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7613	37981	A	7667	2	342	QNRGPGRT*DFLPNS/VGEKILS FCNCSLGSIGALGPACCRVLSEL SEEQVFHVNYLDVEELSLSRLC QCLVELSFQLATAYHGSATTRE AARGEAACRAHLMFWCLCIWQ FCRL
7614	37982	A	7668	1	1166	VGCVLGRVEAAVTVAPAGTEE GMSEEEQSGTTTGCGLPSIEQ MLAANPGKTPISLLQEYGRIG KTPVYDLLKAEGQAHQPNFTF RVTVGDTSCTGQGPSKKAACH KAAEVALKHLKGGSMLEPALE DSSSFSPLDSSLPEDIPVFTAAA AATPVPSVVLTRSPAMELQPPV SPQQSECNPVGALQELVVQKG WRLPEYTVTQESGPAHRKEFT MTCRVERFIEIGSGTSKKLAKR NAAAKMLLRVHTVPLDARDG NEVEPDDDDHFSIGVGFR/LDVL QNRGPGCTWDSLRNSVGEKILS LRSCSLGSLGALGPACCRVLSE LSEEQAFHVSYL DIEELSLSGLC QCLVELSTQPATVCHGSATTRE AARGEAAARRALQYLKIMAGSK
7615	37983	A	7669	2	328	
7616	37984	A	7670	181	1271	LEASLDQH*ASVHSFRSHIHVIS RTHRK\SQRDPSELDAEHAQKV LEMEHTQQMKLKERQKFFEEA FQQDMEQQYLSTGYLQIAERR GEWGLGLLVWGLTGCAGCHD SSWGLVRWYKCYSFKFVDEPC LQFERNCKPIGSMSSMEVNVD MLEQMDLMDISDQEALDVFLN SGGEENTVLSPALGRVDKLALA EPGQYRCHSPPKLQQWCGSVM NSSQRFDMLHSGNFIEHLSLLL VVKDWRLQGGADSPAGLTGNS SLFVRQAFRGVPAMGKAMGSS QVLQAPGPESSTCQNEITLQVP NPSELRAKPPSSSTCTDSATRD ISEGGESPVVQSDEEEVQVDTA LATSHTDREATPDGGEDSDS

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7617	37985	A	7671	60	965	QRGVGGVGPRGRQRQQQPEA* GEETAAAAMLETLRERLLSVQ QDFTSGLKTLSDKSREAKVKSK PRTVPFLPKYSAGLELLSRYED TWAALHRRAKDCASAGELVDS EVVMLSAHWEKKKTSVELQE QLQQLPALIADLESMTANLTHL EASFEEVENLLHLEDLCGQCE LKRCKHMQSQLENYKKNKR KELETFAELDAEHAQKVLEM EHTQQMKLKERQKFFEEAFQQ DMEQYLSTGYLQIAERREPIGS MSSMEVNVDMLEQMDLMDIS DQEALDGLPELWRRREHCAVP
7618	37986	A	7672	1	124	
7619	37987	A	7673	3416	3920	CCLIKNDIKEKLHYSDCRLNVG QPCILPRNAFEFDLLIFYLGNLH FYISEIGLLGYCTFFFFFEMESC SLTQAGVQ*CNLGPLQPLPPGL E*F/SCLSLPSSWDYRHVPPHWL IFVFLVEMGFCYVGQAGLEFLT SGDPPTSASQSARITGVSHHAQ PGYCILILGFC
7620	37988	A	7674	1	387	

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7621	37989	A	7675	1	1827	MKKVGGRVFWAKERASAEAL RHELAGLLKKCKGSAADADQG GLGQGCRRHSHKRWEGFTRGAS RAARLGNEEQDAASAGPGPNG CGHLGAEEPSAAASGMDQCVT VERELEKVLHKFSGYGQLCER GLEELIDYTGGLKHEILQSHETC LSVVLLSLPMVMAGSGNLKVL QLCRFLHMKTTGEMNYGFHLA HHMALGTSIFGEEGRYSLSTS NSSIAALLCALYPHFGFTALD NRYHLQVALRHLYVLAAPRA FLVPVCGGTQTRPCYALLGSLP YKGTQWYEQTKEDLMAPTL PELHLLKQIKVKGPYRWELLID LSKGTQHLKSILSKDGVLYVK LRAGQLSYKEDPMGWQSLLAQ TVANRNSEARAFKPTISAFSTSD PALLSFAEYFCKPTVNMGQKQ EVLDFSISVLYECVYPRETPAE MLPAYIAMDQLIRRLGEREMS ETSELWQIKLVLEFFSSRSHQE RLQNPPKKRGALLMELGNSPPF CKCTNNNTLADTWLQVRGDI VNAYLTGQPLAEESQLDMLACF LVFHFVPSSTALPTL*D*KGSTS FAELLFKFKASLKMPSAELCLR LAPLPSLEIPQPNGDVTVSGGEP
7622	37990	B	7676	374	515	
7623	37991	A	7677	102	1237	HSHRAACPDNRLVPGASR*HY LHRCRSRHSSS/NIGKNI/HSLRA GAVNNQSRPQSHSSGEFSLHD HEAWSSSGSSPIQYLKRQTRSSP VLQHKISETLESRRHHKIKTGSPG SEVVTLQQFLEESNKLTSVQIKS SSQENLLDEVMSLSVSSDFLG KDKPVSCGLARSVSGKTPGDFY DRRTTKPEFLRPGPRKTEDTYFI SSAGKPTPGTQGKIKLVKESSL RQSKDSNPYATLPRASSVISTAE GTTRRTSIHDFLTKDSRLPISVD SPPAAADSNTTAASSEYHLHQ WSSHILDIPHTIGSCAQNDLAI DMPEPLYAQARNRSTGRSHFL NQTFATIRMPSDAFGMLAKDK HRTIYCGPFISAILIPEYRIS

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7624	37992	A	7678	1256	1971	HNCALHADSTMRGKAPLFRPT YKLMEQLLLRIFRWISQKCQNV EVTSICWF/CTCTYSGWVEAYP TRTEKPYKKGKNDPSCTKGQC NPLELVITNPLNPHWKKGERVT LGIDRARLDPRVNILVRGGEVY ERSPEPVFQTFYDELNVPVPEIP GKTRNLFLQLAECVAQPLNVT CYVCGGTVTGYQWPWKAREL VPVDPVPDEFLAQKNYPDNFW VLKPSITGQYCIAREGKKFTHP
7625	37993	A	7679	1	1710	
7626	37994	A	7680	1	561	
7627	37995	B	7681	1	642	
7628	37996	A	7682	2	611	
7629	37997	A	7683	1	1718	MLSIQSTHAEKELENFFQNTED WYFHTSHHLSSLRFFSARESNC SMKLYEEAYMERYRDFLPATM WSAHEVDVPGQATWIKQKSE KDPVHLQKGKNGPSCTKGQCN PLELVITNPLDPCWKKEERVTL GIDGAGLDPQVHILVRGEVYKH SPEPVFQTFCDELNVPVPEIPGK TRNLFLQLAWHVAQCLNVTSC YVCGRTIIGDQWPQEAQELVPT DPVPDEFLAQKNHPDNFWVLK A\SIIGQYCIAREGKEFTHPIG*L SCRRQKLYNGTTKTIT/W/RGSS NHTERNPFSKFPKLQTVWTHLG VPRAWEQPPLGFLGYVRAWS LLTGLLDHWAGSCCLLGTIKPS FFPTAP*KQGKLLGFPVYASRE KRIIAIENWKDDEWPPERIIQY YGPVTWAQDGLWGYQTPIYVL NRIIRLQAALEIITDKISRALTIL AWQETQMRNAISQNRALDYL LAAEGGVYGKFNLNCCCLHVD DQGQVVEDIVDRRTKLAHVPV QVWHEFDPGAMFGKWFPALG GFKTLIIGVLIVIGTCLLLPCLLP VLLQMIKSFIATLVHQNASAV
7630	37998	A	7684	3	406	TLISFIYPAQNPELLNKLSQRKT TVLAMQVPRVTIAQGYDALS SMANIAG/YLIVGGGVAGLASA GAAKSMGAIVRGFDTRAAALE QFKSLGAEPLEVDLKESGEGQG GYAKEMSKEFIEAEMKLFAQQ CKEVDI
7631	37999	A	7685	1	236	
7632	38000	A	7686	1	978	
7633	38001	C	7687	415	453	

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7634	38002	A	7688	3	408	
7635	38003	B	7689	1	2137	
7636	38004	A	7690	112	3688	GNWGARKLGTHINMANLLKTV ATGCSCPLLNNLGSCCKGLRVK KDFLRTFYTHQELWCKAPVKP GIPYKQLTVGVPKEIFQNEKRV ALSPAGVQNLVKQGFNVVVS GAGEASKFSDDHYRVAGAQQ GAKEVLASDLVVKVRAPMVNP TLGVHEADLLKTSGTLISFIYPA QNPELLNKLSQRKTTVLAMDQ VPRVTIAQGYDALSSMANIAGY KAVVLAANHFGRRFTGQITAA GKVPPAKILIVGGGVAGLAS
7637	38005	A	7691	2	288	EFPATIQSNRARGAKPGRRVDR GPQARCFDVGGCPRSAPSNGLR NSEPSP*GR/CGRSPVSPALSSSR DVNLPCMLSSGTDGACSEVLV GTLYRPL
7638	38006	A	7692	54	522	RFHMSSLSASPPPRRLWTQMNT QCLVFSASHLPRCQEMLFQGT *EKPHSPRCFSPAKKPRPAGAPA ASHKCR/CTP*PGPPSEPTV/PSD KAPLVGNAESQRVASPSGPPAP CSPV\GWPGTYKAIPASGT VAP TPLSAGTTDMTRCPLSLEFL ND
7639	38007	A	7693	3	57	RAGAGRSERAVAEES*GGLSGS CGRHNPGQSRQRRPSQDVELE DCCRGCS*SGSLWLRTLPRKPA PFGGFSVPASSAASIPTGSAVVQ PGPLPGPTGKSPVVFAGSGPSSN PQPAFS\NMRTDGSKPGSA/SF APLTPPLEPPAGLRAPSSGVSP LPATIQSNRARRARSPGDA*AAP PRPGVLTSAVPLPRRV/CLRNS RAFAPAVRTNAVTP*PGGVSGP SQRRAEAA
7640	38008	A	7694	3	237	
7641	38009	A	7695	114	186	

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7642	38010	A	7696	73	904	FGGFLANLSYQEALSDTQVAIV NILSSTSGLFTLILAAVFPSNSGD RFTLS*ELLAVILSIGGVGLVNL AGSEKPAGRDTVGSIWSLAGA MLYAVYIVMIKRKVDREDKLD IPMFVFGFAGLFNLLLLWPGFFL LHYTGFEDFEFPNKVVLMMCIIN GLIGTVLSEFLWLWGCFLTSSL IGTLALSITIPLSIADMMCMQKV QFSWLFFAGAIPVFFSFFIVTLL CHYNNWDPVMVGIRRIFAFICR KHRIQRPEDSEQCESLISMHSV SQEDGAS
7643	38011	A	7697	1	308	
7644	38012	A	7698	3	397	
7645	38013	B	7699	1	963	
7646	38014	A	7700	3	1433	KIRVTSKALELGKAQGQTGTD GSGRGWGRPNSSGKGEHFYYN ISE*VGGGASRSGAGPRRWRRG PRMLQITNASLGLRFRQQLLYW FL*GPSTLRGVESGSGGLEVLW GSRDPAGRMKVSNNVSCQASVS RMHAAFGGTFK*APAPTPAHPF RAPQLICLAQVWAATGRRVAR VGMLSL*EGPGELVAGESGCA AVMQHLRAGPFRALLFTSNLD MDFRVSCLGWCMTSDFLTRPL SLLSLQEEERMVYVAFSEFFFD SAMESYFRAGALQLLLVDGKV CHGLFVGWAREGL*QSSSLPHC AGGGRDRATCTPVRPRRGAAIK PSGTTISVTASVTIALVPPDQPE VQLSSMTMVRVPEWGLLAGG QGKMGCGLLSR*AGALPCTSVI GGQSHLSTGMGWAGFVRS*PS PSPRKA/RGVRMEEER/GVNWA GPD*ATNHAVSGGRMGKEGGP SPLSIAPQCHRPADVRASTAPT
7647	38015	A	7701	2	391	MALRGKALRTTSDLRRFRIYSN HSATWKSLA/L*IPLQAPLKVTM LPELG*MPQCSNERTWRGVVQ DPHYPEGIKLCAMKVVTNPGCI PSPIGA*SPTFAKGLREVIEKNR PADVRASTAPTSPHSSCLSP
7648	38016	A	7702	1	189	
7649	38017	A	7703	202	455	KCDILPTALDSIHH/SSHRVHLA HSPHSLQ**HPHPLAQPSQDRP SVPL**MSLADPESHLSSESHSF HL*PACRV*AYDLLPL
7650	38018	A	7704	313	378	

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7651	38019	A	7705	126	1246	PNGLRPPCPSPASETPGNAPVCD PGSSSQGAQGKLNAWWAPGM A/ASRSLHSLHPVR/RACALPAQ SLLGPLRSFRCHLSDPVFRTGAP PGQGSWQYKVLVHAQERELTQ LREKLREGRDASRSLNEHLQAL LTPDEPKSQGQDLQEQLAEGC RLAQHLVQKLSPENDNDDDED VQVELAEKVQKSSAPREMOKA EEKEVPEDSQEECAITYSNSHGP YDSNQPHRKT KITFEEDKVDST LIGSSSHVEWEDAV/HHYSRK* K***GRGRKRASVSQKPEETPS\ PRPEPPPRGSGEAERSVGSWDA SSRSLRRLHPLREPVTLP SRFR GRCGASAAIFGSCVPHGGSTRA GMMGSKEVGKGGDPGEETSPV ALFS
7652	38020	A	7706	3	5665	LLEKLRQRIHDKAVALERAIDE KFSALEEKEKELRQLRLAVRER DHDLERLRDVLSSNEATMQSM ESLLRAKGLEVEQLSTTCQNLQ WLKEEMETKFSRWQKEQESI IQ QLQTSLHDRNKEVEDLSATLLC KLGPGQSEIAEELCQRLQRKER MLQDLLSDRNKQVLEHEMEIQ GLLQSVSTREQESQAAAEKLVQ ALMERNSELQALRQYLGGRDS LMSQAPISNQQA EVTPTGRLGK QTDQGSMQIPSRDDST
7653	38021	B	7707	1	1098	
7654	38022	A	7708	193	5850	HCQRNTTGEHCEKCLDGYMIK S*DSLFGDVWN*LPIFASNFSA EL*K*GFVRDYHK*TFVCS/CLL NP*GPEFVGKKIKRKKNHDAK YLNV*YS/CFRCAPGYYG NPLLI GSTCKKCDCSGNSDPNLIFEDC DEVTGQCRNCLRNTPGKYCHIL SIKKCISRLFLFPTVCNCGGGP CELH*EQNFWFKNYFNSRHPLP QTDVSWCSAKTACL*HAFDL*F *RNVSPPGCDKCVWDLTDALR LAALSIEEGKSG

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7655	38023	A	7709	1	713	TPCFESPN/ETGTYFSTKAGYVL LN/ESSN/IGIEFEIAFKVRPRSS GTLVHGHSVNGEYLNVMKN GQVIVKVNNGIRDISTS\TPKQ SLCDGRWHRT\VIDRSDNVVQL DVDSEVN\HVVGPLGIQKPIDH REPVL\VGVPRIY*HPRFCPP QNPFTG\CIR\HFVIDGPPQWSFQ VKAAPGQAGARKASNSLSQQP GHGQKHSCPKYKVPLRALEKE HKASPGGTVTLSTFGVGSFSSS
7656	38024	A	7710	3	322	DGVSHCRPGWSAVA*SQLTAT STSWVQMIACFTLPSSWDYRCT PPCLTNFCVCIFSRDRVWAMLA GWLKNS*PQAIRPPQPPKVLGI TGHEPRAPGQKILTFHILT
7657	38025	A	7711	2	480	YSPPECPCGKIEEHSEDMETH VKT KHANLLDIPLED CDQPLYD CPMCGLIC TNYHILQEHD LHL EEN\TFSKA WIESSVLVIYNWLT SFSKKKTERGD/PEESRQEIEEF QKLQRQYGLDNSGGYKQQQLR NMEIEVNRGRMPPESEFHRKA DMMESLA
7658	38026	A	7712	187	468	
7659	38027	A	7713	1	1110	MHCIETGVERRILGLLLFRGSLA SVIRPGEVLDAAHALVCQRGPK GKPSGAQCGSCWPLGRPKALT QLVPASFVCLACAFGAERLGDS ALRSSDLTHLLVNTMLSCNIC GETVTSEPDMDKAHLIVHMESEII CPFCKLSGVNYDEMCFHIETAH FEQNTLERNFERINTVQYGTSD NKKDNTLQCGMEVNSSILSGC ASNHPKNSAQNLTKDSTLKHE GFYSENLTESRKFLKSREKQSSL TEIKGSVYETTYSPPECPCGKI EEHSEDMETHVKT KHANLLDIP LEGMDRVQCSGDLQLAHQLQQ EEDRKRSEESRQEIEEFQKLQR QYGLDNSGGYKQ\NNYEIWR* K*IGEECLHLNFIGEKLI
7660	38028	A	7714	2	303	
7661	38029	A	7715	97	233	RTVTCYHRNSRACHPQQITSCP *HRALPCLPLWSPKCPSPWPWF G
7662	38030	A	7716	229	359	MKWVYCSVTGMGKGQHRMP\ SKG*GWVQRYNRDGI PSRVLE LF

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7663	38031	A	7717	1	1185	MSTIDDPRLQGRMCLMLRGT PEQKALVIGGEACMWGEYVDN TNLVPRLWLCPPSTQDLANEG REMTILHRHIPDRGKGVMRSCS FRTPRPFTLACGPEKSLMDPQS QSNSEGASSSLVVKLADTDRE ALRRMQQMAGHLGAFHPAPLP LGACGAYTTAILQHQAALLAA AQGPGLGPVAAVAAQMQHVA AFSLVAAPLLPAAAAANSPPGSG PGTLPGLPAPIGVNGFGPLTPQT NGQPAPTRSTITGSPLI/SGWSQ SRPILRIMKYAEQRIPTLNEYCV VCDEQHVLFQNGSMLKIQPDTH QVWREDIPVNYMKELELVTKA GFRALLSAPWYLNRSYGPDW KDFYIVEPLSFEGTPEQKALVIG GEACMWGEYVDNTNLVPRLW AHRIQL
7664	38032	B	7718	1	1196	
7665	38033	B	7719	184	1689	
7666	38034	A	7720	228	407	
7667	38035	A	7721	1	725	MQRGALSPVLMLSAAPEPPRP PPGLSPPGSGPGSGSRHGSARPG PTPEPSGSLGAALDSSLRAAVA FKAEGQRCYREKKFREAIKGY HRALLQLKAA/LGGPP*RPARP RPPGPTSSPGPARLSEEQRRLVE STEVECYDSSPA\CLLQSELVNY ERVREYCLKVLEKQQGNFRPP YRAG\IAFYPLGDYARALRFLQ EAPSREPPDTNVLRYIQLTQLK MNRCSLQREDSGAGSQTRDVI
7668	38036	A	7722	1	262	NGKEPGRYTFEDAQEHYKLM KSDSYPRFIRTSAYQELLQAKK KGRNIPIFPCHKNCTPTLRASTN LL*KEGKSLTSKRLTSLAQSY
7669	38037	A	7723	1	1392	

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7670	38038	A	7724	1	1544	MAQGNNGQTSNGVADESPN MLVYRKMEDVIARMQDEKNGI PIRTVKSFLSKIPSVFSGSDIVQ WLIKNTIEDPVEALHLGTLMA AHGYFFPISDHVLTLDKDDGTFY RFQTPYFWPSNCWEPENTDYA VYLCKRTMQNK\ARL\ELADYE AESWA/RGLQRAFAPKW\EFIF M\QAGAQAQVDKKRDKIERKIL DSQERAFWDVHRPVP GCVNTT EVDIKKSSRMNPHKTRKSVY GLQNDIRSHSPHTPTPETKPPT EDELQQQIKYWQIQDLDRHLK MSKVADSLLSYTEQYLEYDPFL LPPDPSNPWLSDDTTFWEL\A SKEPSQQRVKRWGFWAWDEGI GKTQLGRRNSFLKIF*EFRISGS GNFKVLGWASGRTLKRPFKKE VPSRVQEIWQEFAPGAPSAINL DSKSYDKTTQNVKEPGRYTFE DAQEHYKLMKSDSYPRFIRSS AYQELLQAKKKGKSLTSKRLTS LAQSYLNGSSCSMNADWSHCT HFVAQCCDLEQRTLEQDVA
7671	38039	C	7725	81	439	
7672	38040	A	7726	531	686	GWQWLHRPPGATQHCGGNLP AEESLPARATN*ARPAATHRGG RGQDLPPGG
7673	38041	A	7727	93	428	LHCQVHLSLIDLPLLI\SFLLLLF *D*VSLLLPRLECSGAISSHCSL H/LGPGSRDSPASAS*VAGITGT CHHVQLIFVFLLETGFHRVSQD GLDLL/NLVIRLPRPPKVLGLQA
7674	38042	B	7728	99	425	
7675	38043	A	7729	35	861	
7676	38044	B	7730	141	586	
7677	38045	A	7731	116	926	AEIVAQEVSEEGGKSRKGPQFG KSQYQELIRRSECGLNRGEGESI KANMQQVIYIFPITLAEVVL RP HSYPSKKTGLTLLAAASIAYISR *EWLYFETGTWVYPVFAKLSLL GLAAFFSLSYVFIASILLGEKL NHWKWVSVRNSTLILYIRMAK SHTQSPTSLAHMPFCSIKIEMAE VPSSAQSMNWCEKLLVFPPR*C CFLRPRDSVSPPVFAWFILMHF NTRLFQEAFFGPQPILQRWRLE SVGICFQWPDWKSPAKHQLVK

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7678	38046	A	7732	32	394	GKAVLPIMRETLDGFHYQHCC PDLPGTDLGHPGSPDLGEVKFL SQT*EVTSLQVSGKVWR*WTAI CTHTSQSLISLL\FCLRSASATS LTLSHCNVVKGLLDFKKRRG HSIGGAPEQR
7679	38047	A	7733	1	765	
7680	38048	A	7734	3	1295	QARVSQELKKAARKRTVSISEGP DTLGDGMRERRETALAPEPEP LEKEACEKWKRPFERSASATSLT LSHCVDVVKALLDFKKRRGHSH GGAPEQRYQIIPVCVAARLPTR AQDVLDAHLSEVQCCSF\GPNS SLLATGGADRLIHLWNVVGSR LEANQTLEGAGGSITSVDFDPF G/SNQVLAATYNQAAQLWKVG EAQSKETLSGHKDKVTAAKFK LTRHQA VTGSRDRTVKEWDL GRAYFSR\TIQCSFSYCNDVVCG DHIIISGHNDQKIRFWD SRGPHC TQVIPVQGRVTSLSLSDQLHL LSCSRDNTLKVIDL RVSN\TARG FRADGFKCGSDWTKAVFSP\DR SYALATLPVMGPF*IWECGTPG KNWKKQELTGTPIALPVQTPW PWCLLP GSPHGETWTQGRKGC AFGSRAHDLPALGWRLLEA
7681	38049	A	7735	123	463	DVEVGLISQLQDCELGCCIPLK VFPAVFRLPLSLHTFLPLSLRT LASGGDGATSASCCRCPGAVSI S*L*QTVASP*VLVFVHSRKEV GKTARAIRDMCLEKDTLGLFLR
7682	38050	A	7736	1	489	
7683	38051	A	7737	1	423	
7684	38052	B	7738	1	900	
7685	38053	A	7739	1	1824	
7686	38054	B	7740	400	969	
7687	38055	A	7741	3	4781	EISATQIIVCTPEKWDIITRKGGE RTYTQLVRLIILDEIHLHDDR PVLEALVARAIRNIEMTQEDVR LIGLSATLPNYEDVATFLRVDP AKVLFYFDNSFRPVPLEQTYVG ITEKKAIRFQIMNEIVYEKIME HAGK\NQVLVVFVHSRKETGKT ARAIRDMCLEKDTLGLFLREGS ASTEVLRTAEQCKNL*LKDLL PYGFAIHHAGMTRVDRTLVED LFAIDKHIQVLVSTATLAWGVN LP*HTALFK
7688	38056	A	7742	2	518	

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7689	38057	A	7743	18	1108	CSGIPRFRDSQSTRAACFFPAWT RMRAPSMDDRAAVARVGAVAS ASVCALVAGVVLAQYIFTLKR KTGRKTKIEMMPEFQKSSVRIK NPTRVEEIIICGLIKGGAACKLQIT DFDMTLRSFSYKGRKRCPTCHNI IDNCKRLQMNVEKSYCQLKEK YYAIEVDPVLTVEEKYPYMVE WYTKSHGLLVQQALPKAKLKE IVAESDVMLKEGYENFFDKLQ QHSIPVFIFSAGIGDVLEEVRQA GVYHPNVKVVSNFMDFDETV LKGFKGELIHVFNKHGALRN TEYFQSN*KTNSNIILLG\DSQG DLRMADGVANVEHILKIGYLN DRSGMSF*EKYMDSYDIVLVQ DESLEVANSILQKIL
7690	38058	A	7744	105	548	PQTPRLKQSYHVSLSWWDHP VAGKRA*HAH*FYIMAQLFLPA ASPGPTPASQQPLWTQCLPISW RPWSAHSFLKPSSPGPGTPASQ QGLWTQLPRSFQRPWPKSSSR PGNGPGRAASRPRAQLRPLGG LSRFNDGHGFLAQ
7691	38059	A	7745	186	650	RCPGCPTTASARESREAESRGR GSSGASWGAVQWEEPQPRLL RGTDCCMIFWAPHGSSTWRRR CVHSRSTAADPVLTPSPA/STPS SNCSGSGTSLAALPLPLPQTLGP *QPGWKGTPQCLNTWGVSITS TGRWATPKIPGLTVPPENMDS MWG
7692	38060	C	7746	212	556	
7693	38061	A	7747	2	312	PDLK*STCLGLPKCWDYRW/RA TMPGWENIFSSMNHTLNALTG AVTSTRDNS*LHRVSCISSPWCC CLSPCPCRVSAAGTRVPSCCLCH SGAWNRLDQDINRNNSC
7694	38062	A	7748	2	366	FLHTKYLLFCGKIPHKYFIRSII FFFFLRQS/LYSIAQGGVQWGN LGSLOPPSPGFKQLSCLSLPSSW NYRCAPPCPANFVFLVEMGFH WIKPG*SRN*PRDPPASASQSAG ITGVSHHAQP
7695	38063	A	7749	1	446	MPILFTTVSSALSGAQHIADAQ CDRKGHRTTIQGSRVNLVQPSV GPKVEETQCWGPGRGMPGAPE APRERRVRSGSRSGDPGVA/PR AASGVGGRYAITRGRASAAVP CRSGGARRGGAGGQAADCGPG H*KESESRGPEGPAEGSQPL

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7696	38064	A	7750	1	744	GGLIPRAQRESKRRSRGRARAA SGV/VWALCYHPRQSECCGTL* KWRSSPRRCWRTSG\DCGPGH* KESESRGPEGPAEGISASLKM* WFASGTCLSRCLTLRQRK*LKK IKIHWIKK/SEK/PAEAT*SEGQPP F*GPRQTGAEGF*LEPPQPGMSL KLFKVLKG*DSRTKMGDQQPP RVHGRTHGPLQPLTPVKGGQS CPVKGPSPSGIWP*KPLL*CLAT L*WQEGTFSLSGLLGPGTPGAS VGHKIY
7697	38065	A	7751	316	650	SYNTHGITHVPTANVLVVDL MCHLEKLAKYDDIKKMKVQA LEGPLKGILDYTEQQVVSSNFT SDTHSFTFDAGAGTAFNNHFFK LIF*YDNEFGYSNRVVELMFHP ASKG
7698	38066	A	7752	2	775	QARRARSNSRGLSQSAARPLA AKTAWRTVAPPQPWAAAPR*R SSCPHSSCSATSPGPACQSSA HSPSPRLQAPPPTSS\SGSSVPE AATAPLAASARRGTPRPRTGRP SWAGTRQGSWAGTQRPVWVA PAPAGPPRAAAAAAR*GRDKS QLTCPPRHSTPPGSAAGASRHR RRGLAGPAPSPPGCRAARPPWP SAAAALGLGGRGPDVALHCEI HWPLEFQSLCCCLLTSRGGEAS CHPEFHLFMHDFLPGSF
7699	38067	A	7753	1	552	MQTLFTLLQPSSQTPGIPQPIVC CVYAESGARDSGQP/PSKVVPVS FCTPAATQRG*REPGCSHPAGD CSAPQQCS*PGQ/RIS/RGDKVL ASNTYLPGPPGLPGGQGPPTW MKVETITQQTNTGTENRVFSL LYMTISKQYLSEEQGSWLSCL INALQAFFSNAAIWLVTWFELS RVLDGAEND
7700	38068	A	7754	2	538	LGKYITGDKVLASNTYLPGPPG LPGGQGPSPGPKGSPGFPRY A\GLLGQPGSRGSGHTHTIS*S/ G/LPTKQGRRGVPGPPGPPERD GSKGERGAPGRGSPGPPGSFD FLLLMLADIRNDITELQEKVFG HRTSSAAEFPLPQEFPSYPETM DLGSGDDHPRRTETRDLRAPRD
7701	38069	A	7755	146	373	

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7702	38070	A	7756	678	1582	CQGN SPLSGV WPSGDWEDKHS Q*CPVVCSPQNILSQT SRHNDR DYRLPRAETHSSSYAQYSTPSN LVVHPTATPSTVPSSPFTLQSD\ YQPKKSFDA NGASTLSKLPTPT SSVPAQKTERKESTSGDKPVSH SCTTPSTSSASATE/S/TTSAPPTS ASAGPCFSCSTARQYLPYFRDP NLLRTIAVLLCKATVAALINS*C GTYLKIK*SSYSSCDTSLTAVYN S*VSYCW TICFQHNVSDFFSSCSA PTQAQPSNQSPMSLTSDASSPR IICFSKE*GTPQTNTVPIQTGFGS TPPVSSQAKG
7703	38071	A	7757	1	1365	MHLIPATNCDTLVECCLPGL TRDLVCTAFTGFGTSYSPQENS HNHSALHSSNSHSSNPSNPSK TSDANILSQT SRHNDRDYRLPR AETHSSSTPVQHPIKPVVHPTAT PSTVPSSPFTLQSDHQPKKSFDA NGASTLSKLPTPTSSVPAQKTE RKVLQQLSKHNRKVMIRSALIT SIILDLLYIEKDLRYQKNIESTSG DKPVSHSCTTPSTSSASGLNPTS APPTSASAVPVSPVPQSPI/PSLT SGPKSS*TIA/PALQATLQLNNS NVDISKINEAQPSNQSPMSLTSD ASSPRSYVSPRISTPQTNTVPIKP LISTPPCFITAKG*LLQ*LSQGTS VHSQPHTAACNC*/PSSK/SHEP VSPRSLQRSSSQRSPSPGSQFILL NSSNGIQMATVVPQEFLARFH VFHLTPGTRRPPFQWKISLKHV SRDGPADSWQEEGRASRFTAE GRRH

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7704	38072	A	7758	2	1256	CHCGPP/VKVEAYGSQVLKGVLAQVQLTVGPVGPRTHPVVIFPVPECHIGIDMLSSRQNPHTGSLTGRVWTIMVRKAKWKPLELPLPRKIVNQKQYHIPEGIVEISATIKDLKDAGVVIPTTSPFNSPIWPVQKTDGSRMTVGYCKLNQVVTPIAAAVPDVVSLLLEQINTPPGTWYAAIDLANDFFPIPVHKAHQKF AFRWQGRQYTFTVLPQGRWEI NMTKIQGPSTSVKFLGVQWCGACQDIPSKVKDKLLHLVPPTTKK/EAQCLSGFRREHIPHLPIYRVSRKAANFEWSPEQEKALQQVQAAVQAAWPLGPYDPADPMVLEVSVADRDAWSCWQASI/GHKVGHAQQHSIIKWKWYIRDWARADPEGTTKGQGQRRWWQLAERQDSRDREAIGERQETAVGKTARDGEAVCD
7705	38073	B	7759	56	3476	
7706	38074	A	7760	3	591	DPADPMVLEVSEADRDAIVPIS ESQQRPLGFWSKALPSSANNYSFFKRQLLACYWVLVEIEHLMGHQVTMRPELPIINCVLSDPCSHKVGHAAQQHSIIKWRWYIHDWAEGTSLKHEEVAQIPMVSTPSLPQPAPMASWEVPYDQLTEEEKTRAFTDGSARHAGATQKWTAVALQPLSGTSLQDSSEEKSSQW
7707	38075	A	7761	1	558	
7708	38076	B	7762	1	1189	
7709	38077	A	7763	604	1760	NSWCRWFNFRY*YPTFYWES*NT*IPLREWFG*NHDASCP*TLD SKSFSFETRGTGSPCSSSLQTAYCGTLWIVQGV
7710	38078	B	7764	1	474	
7711	38079	C	7765	1	3384	
7712	38080	C	7766	1	333	
7713	38081	A	7767	1	390	
7714	38082	A	7768	3	728	
7715	38083	C	7769	184	529	

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7716	38084	A	7770	2	837	CHCGPP/VKVEAYGSQVLKGVLAQVQLTVGPVGPRTHPVVIFPVPECIIGIDMLSSRQNPHTGSLTGRVWTIMVRKAKWKPLELPLPRKIVNQKQYHIPEGIVEISATIKDLKDAGVVIPTTSPFNSPIWPVQKTDGSRMTVGYCKLNQVVTPIAAAVPDVVSLLAQINTPPGTWYAAIDLANDFFPIPVHKAHQKQFAFRWQGRQYTFTVLPQGRWEINMTKIQQPSTSVKFLGVQWCGACQDIPSKVKDKLLHLVPPTTKK/EAQCLSGFRREHIPHL
7717	38085	A	7771	2	469	
7718	38086	A	7772	3	587	YPASAGLMLQNFGVIGLRYHFAIHSPAAGGLDGLHAAAIQGITKIETTPNHQRAPAHWTLTQQAHLQPSPLHFNPLTLCLMHCPTAIPHCFAADARTWVNLPTSSLI GHKKENLKEFISGLIVHEILEEVLQAEGDFQPFTRVTVHWGKGNDQTFRGLLDTGSELTLPDGP KHHYGPPVKVG\AYGAQLL
7719	38087	A	7773	1	633	MTVDYRKFNQVVTMAA/AVPDAVSLLEQINTFPGTWYAAIDL ANAFFSIPVHEAHQKQFAFLPQGYINFPALCHNLIRRELDFFLLQDITLVHYIDDILLIGSSEQEVVNTLDLLIHKRSKEAEHTAASRIRVSCLPEQKSHEQTLPEQVPSSGDIKEYFPNAFVLLTTASLQGGDNTSQLQLTWKAPEDIKMSKT DADADEEIEALRG
7720	38088	B	7774	1	1431	
7721	38089	B	7775	75	947	
7722	38090	A	7776	6107	6706	MVVVFLHKCLHYFHSTQLVISRYNSPTSEYFQALDLTWRALGT VGSAPPILPDLGGTNRQFPFILSHSGLHRNVLPETDSQSEDRLPVTWLAVSACCCQQMVGGNP TRSKL*RTGSHYHLPGWEP*RP HFPHAGSLAWQWLLCSSLEHSF GA*ELPCNPCKGWCLCPCHFIF YIFFNSFLSNCPQLCNWHSSYFI

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7723	38091	A	7777	1	3179	MAEGKEEQVLSYTDGSRQREN EEDAKAETPDKTIRSHETYSLPR EWYEGNRPHDSITSQWVPPTTR GNYGSTIQDEIWVGDSHSGYVRP VPVPRSLNSDISYFGVGGKQAV FFVGQSARMISKPADSQDVHEL VLSKEDFEKKEKNKEAIYSGYI RNRKDDYDNHTGIDLVGTHIATI KGSNEEDTDTPLFIGKVRTLFP FVNGSAEIMLMPSNQQHKTDE KGRANLGVFSVFAPRGEHTLQ VKAIYNKSIIEGP
7724	38092	A	7778	281	1531	VRVLSPVEKELKLWKNTHKLL SYPTVGAAVTQLQNLAMGVI GSHGARGQVVALNRQRQGD LPFTRVTVHWGKG/NMQIFGGL LDTGSELTLPKDPKHHCPPV KVGAYGGQVINGVLAQVQITV GPQTHPVVISPVPECIIGIDILSS WQNPFIGSLTGRVRAIMVGKA KWKPLELPLPRKIVNQKQYCIP GGTEEISATIKELKDAGEVPIPT TFPLNSPIWPVRKTDGCWRMT VDYCELNQVVTPTAATVPDVV SLLEQINTSPGTWYADIDLANA VFSIPVHKAHQKQFAFSWQGG QYTFTVLPQEYINSLGLCHNLI WRDLDGFLLLQNITLLVHYVD DIMLIGSSEQEVANALDLLVSM ASSRVPYDQLTEEEKARFTDGS ARYAGTTRKWTAAALQPLSRIS

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7725	38093	A	7779	332	2159	RGYVFCSWKKTDGS/WRMTVD YCKLNQVVIPIAAA VSDVVSLL EQINTSPGTWYAAIDLANAFFSI PVHKAQQKQFAFSWQQQQYTF TVLPQWYINSPALCHNLIRRD DCFSLPLDITLVHYIDDIMLIGP RQLLACYWALVETECLTLGHQ VTI*PELPIMNWVLSDPSSHKVG HEQQHSIIKWKWYVHDWARA GPEGTTTPVISQWPHEQCGHGG RDGGYAWAQQCRLPLTKADL NTATAKRPICQQQRPTLSPQYG TIPQGDQPATWWWVDYMGSL PSWKGQRFVLTGIDTYSYGFA YPACNASAKTAICGLTECLIHH HDIPHSIASDQGFHMAKEVRQ WAHDHGIHWSYHVSHHPEAA GLIEWWNGLLKSQQLQCQLGDN TWQGWGKVLQKVYYALNQHP IYGTVSPIAKIHRSRNQGLEVP LTITPRDPLAKFLLPFPATLQSA GLEVLVPEEGTLPPGDTMIPLN WKLRLPPRHFGLLLPLNQAK KGVTVLAGVTDLDYKDEITLLL HNGGKEEYAWNTGDPLGLLLI LPCPMIKVNGKLQQLKPEALVP KGVVFPFGDTTMLSLSWKLRLP SGHVGLLMPLSQVQKGVTVL
7726	38094	A	7780	84	202	
7727	38095	A	7781	1	551	RWGSHTVAQAGVQWCDHGSL QPRSPGVK*SSHLSLLGSWNHR HATTPG*FCFFSRIRSHCVAQA GL*LLTSNHPPALASQTIVGITG VSHWTWPNTGFSVLTATNKNL KFFHYAISKCLVRAKLSSRLKI EERNKALSAPVVSVSIFDRVLR LLGYSASDWQPEFVETAVSNFV IYGIFRGQ
7728	38096	A	7782	1	678	MPACRLGLLATALIISLLFGFTI VSGTGAEKTGVCPELQADQNC TQECVSDSECADNLKCCSAGC ATFCSLPNGQLAE*FESEESSL DTVSPFVVFQSSISLRIE*ARA GDSSQ\DKEGSCPPGVTI*LPSS GLC\RDQVPGGTAQCPGQ\MK CCR\NGCGKVSCVTAQFLSSSH HQAQVRRDSFLPGPASGFQAH LPSPFFGTLYSFLGTTFSLSQP

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7729	38097	A	7783	1	1972	MAVNGCLEGPSSNFLSCLFIVA LVGSESTHPLCLEQPATQETRY QLQLRPAQRASWIGYAIAHYHL LEDYEMAAKILEEFRKTQQTSP DKVDYEYSELLLYQNQVLREA GLYREALEHLCTYEKQICDKLA VEETKGELLQLCLRLEDAADV YRGLQERNPENWAYYKGLEKA LKPANMLERLKIYEEAWTKYP RGLVPRRLPLNFLSGEKFKEL DKFLRMNFSKGCPPVFNTLRSL YQDKEKCAIIEKL VVG YETSLK SCRLFNPNDGKEEPTTLLWV QYYLAQHYDKIGQPSIALEYIN TAIESTPTLIELFLVKAKIYKHA GNIKEAARWMDEAQALDTAD RFINSQCAKYMLKANLIKEAED MSSKFTRGGTSAVENLNEIQCM WFHTECAQAYKAMNKFGEAL QKCHEIERHFIEITDDQDFHTY CMRKITLRSYVDLLKLEDVLRQ HPFYFK/EQARIAIEIYLKAS*QP PYR*GIKGTTRRLDTAK\LSDEL KKLRNKQRRQAQKAQIEEEKK NAEKEKQQRNQQKKKKDDDE EIGGPKEELIPEKLAKVETPLEE AIKFLTPLKNLVKNKIETHLFAF EIYFRKAAKMVYYLDPSQKR AIELATTLDLSTNRNLQTCME VLEALYDGS LGDCKEAAEIYRA
7730	38098	A	7784	264	429	HRAAPATSDTQE*HRSNAFGEE EEEEEEEEEEEEEEEEEEEEEEEE EEEEEEEEEEEEEEEEEEETLFSN
7731	38099	A	7785	1	681	
7732	38100	A	7786	415	692	
7733	38101	B	7787	1	2204	
7734	38102	A	7788	1	615	MPVDHPPIKAFSEKRTSQSVNM LAKTHPYNPLWAQLEWFKLLEI SPKSPINTDKFLLKRLSVPGSDS CRVRMENVLASQVLHPGQQLM M*EGSGWAEARITV/CS*AANP *KWHPASLPLPW*CRVRMENV LASQVLHPGHADDVGGKWL RSKDHRAPEQQTRESGIRLPSLF PGSAEQPWRGNAQWHLWKA LRGVFGMIPDSLLYEFHQSAKK SSHFKPPQPLLYWTLVNFILPFS LHSSTWFMWSSNQGIMCKEEV

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
7735	38103	A	7789	3129	3197	TQNRACSPDTEQLARQSGTYP VSLGQATVLEDSKAALPGLGPT LMAVTVTTEAAVAIGCEAAH SSREDFTNHQLWRRTEGKKG EGKNKFMSGGVNTTVPLLKTS RKGSPDSPHLREKPSLEKVTFQI GSFASPESDFESRMKKMEERVK ACGPSLEASEAADVAQDPQVS RSPFKPGFQENVCCPQNRLSEG DEGESDKGFAEDRGRNDMAA DIAGQLSHAADLGTASHDDVT YAIKPTCWPGLDIIPSL
7736	38104	A	7790	1	1069	MAEKEAGMSYMVAEVLGFVA VIIAESLKRRFFENFTVAEERS TDETFSLAEETCSSNPAMVRRK KIAISIIFSLCEKEEAQRNFQDF FSHFPLFESHMNRKLSAIEKAMI SCRKIAESSLRVQFYVSRLMEA LGEFRGTIWNLYSVPRIAEPVW LTMMSGTLEKNQLCQRFLEF TLLIEQINKNQFFAALLTAVLTY HLAWVPTVMPVDHPPKAFSEK RTSQSVNMLAKTHPYNPLWAQ LGDLYGAIGSPVRLTRTVVVGK QKDLVQRILYVLTFLRCSELQ E/IPADLEWQSW*R*PAMVRRK KIAISIIFSLCEKEEAQRNFQDF FSHFPLFESHMNRKLSAIEKAMI SCRKIAESSLRVQFYVSRLMEA LGEFRGTIWNLYSVPRIAEPVW LTMMSGTLEKNQLCQRFLEF TLLIEQINKNQFFAALLTAVLTY HLAWVPTVMPVDHPPKAFSEK RTSQSVNMLAKTHPYNPLWAQ LGDLYGAIGSPVRLTRTVVVGK QKDLVQRILYVLTFLRCSELQ ENQLTWSGNHGEDQVLNGSK IITALEKGEVEEYVVTVRNE PALVPPHPTTSSRETQPLADR
7737	38105	A	7791	118	273	FSLSNLVQFFRVCNDHLYTKLH FCFLQAEVKASNFCIYDSLGH LGSHHTVECIATDEHTLHLS MG*SQGKQFLHLRFSWACPGIP PHS

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7738	38106	A	7792	1	551	MQPELPIMNWWLSEPSHHKVG HGQQHSIIKWRWYICDWAVVG RESTTNGLAIGWSIGTWKKHD WKINDNEIWGKISMWIDLSEW SKTVKIFVSHESAHHIT*KSSAE EDFNNQWDGMTCSVDTTTHPLS LTTSVIAKWAHEQSDHGGRYG GYAGAAQQHGLPLTKADLAMTT AECPICQQQRPSLSP
7739	38107	A	7793	1	782	MTKIQEPSTSVKFLGVQWSGA YQDIPSKVKDKLLHLAPPTTTK EAYLGL/FGFWRQHHPH/LGTEQ EKTQHVQAAVQVALFLEPYD PADPMVLEVSADRDALWSLW QAPISESQWRPQGFWSKALPSS AANYSPFERQLLAYWALVET EHLTMGHQVTKQPELPIMNWW LSDPSSHKVGCAQQHSIIKWKW YICDRARAGPEGTTTPVITQWA HEQSGHGGRDGGYTWAQQQG LPLTKADLATATAECPICQQQR PTLSP
7740	38108	A	7794	65	230	
7741	38109	B	7795	1	2115	
7742	38110	A	7796	1	246	
7743	38111	A	7797	1	1293	MAAAACLDASGEARPGLRPPW SQQGRKQAGALPPTKLAGLLA QLQPAEAPDLGIPVLSATREDPL SPQARKCLLPLGLSPCSQHLL WCRASCGRAWGPSRPSRVCTG LDTAVTPAPCRSLPLWTSGADK RGREASRGEGSSKWACRHPSA QTAWAVEGDRHRFLSRKGQIT GKTPSSSQGQPEAWGLSCSCPH TLHTSFFLDTGPLNGGTEKAVT QTGPKHAPCSPGCGQQGKGC GPSGTPDLGALRARAVTVGLCS SWHLQASGHHICIPQYLQQKLL VVHLVQPQPCTKPVVPSPFRLQ MTIENMNHCLKFIPHKDYTANRL VSGLLQLPSNTSLVIDETLLAEQ GQLDTPGVHNVITALSNLITWQ KVDYDFSYPHMEFPCNKKVFIT SEGRSLLPADVPDSLTA PANST KHGGST*TAFSQRCCCLPC

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7744	38112	A	7798	1	2555	MPSHLNQHQIIHTKEKSYKCEE CGKSFKRSSNCTTHKRIHTGEK PYRCEECGKA FRWPSNLTRHK RIHTGEKPYTCEE CGQAFRRSS TLTNHKRIHTGERPYKCEE CGK AFSVSSTLNDHKRIHTGEKPYT CEE CGRAFNCSS TLKTHKRIHT GEKPYKCEE CDKAFKRHSSLA KHKIIHTGEKPYKTGS\CILLQR YCWSTT*TIHFKK*S*EN/PGSC DLNTRLRLKKDYQRVGNCKGQK SSYNGIHQCLSATRSKTCQYNK CGKAFGLCSIFTEHKKIFSREKC YKCEE CGKDCRLSDFTIQKRIH TADRSYKCEE CGKACKKFSNL TEHNRVHTGKKPYKCEE CGKT FTCSSALT KHKRNHTGDRPYKC EECHKA FRWCSDLTKHKRIHT GEKPYKCKECHKAFRCCSDLT KHKRIHTGEKPYKCNCECGKAF MWISALSQHNRIHTGEKPYICE ECGKAFTYSSTLISHKRIHMELR PYKCEE CGKTFKWFSDLTNHK RIHTGEKPYKCEE CGKSFTCSS NLIKHKRIHMEVRPYKCEE CGK TFKWFPDLTNHKRIHTGEKPYK CEE CGKTFTCSSLIKHKRSHTG DR/PYKCKE CGKA FRWFS\ALL NISKHKRIHTGEKPYICEEGKA FIRSSTLTSHKRIHMEERPYKCE ECGKTCIHIGEKPYKCNCECGK GFMWISALRKHKRIHTGETPYI
7745	38113	A	7799	212	461	TEEHLYSPHWKGCGRKVKRLF QVRRGRGWIQTRQPGSMVKEP PLSEAGAESHVSC/RQGDCSRPP SFPLSPERVTPWLPDSHTW

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7746	38114	A	7800	1	1398	AAAERELELLRASLEHQRGVSE LLRGRLRELEEAREAAEEAAAG ARAQLRE\ATTQTPWSCAEKAA QTESPAE\GPP*LRRARPDWTE TRAVAPAGVLKSIMKKRDGTP GAQPSSGPKSLQFVGVNLGEYE SSSEDT\NDSGDSENGGAEP GSSSGSGDDSGGSDSGTPGPP SGGDIRDPEPEAEAEPPQQAQ RCELSRLREACVALQRQLSRP RGVSDGGAVRLVAQEWFRVS SQRRSQAEPVARMLEGVRRLG PELLAHVVNLADGNGNTALHY SVSHGNLAIASLLLDTGACEVN RQNRAGYSALMLAALTSVRQE EEDMAVVQRLFCMGDVNAKA SQTGTALMLAISHGRQDMVA TLLACGADVNAQDADGATAL MCASEYGRLDTVRLLLTQPGC DPSILDNEGTSALAI\ALEAETG MKVAALL\HAHLSSGHPDTQSG VTPLAPQTANTW
7747	38115	A	7801	3	408	
7748	38116	C	7802	141	251	
7749	38117	A	7803	1	1173	
7750	38118	A	7804	451	853	LQMHRLCGGHSLSGCGWHTAR GQELVGQCFL*GGGQLLGLQH PL/AENPTFQEYSLITSEAGLLEG RKKKNKTSRGPSPATCPLGLP RTSPGATRPGPVS/HAAIASQRD SSRTRFSSSLDAAIIARPYTTPSA
7751	38119	A	7805	1	2950	MAASRLELNLVRLLSRCEAMA AEKRDPEWRLEKVGVTYSVA SGRVLFQDFTEQFQVLLPKDAQ PCREVISTLLEKMKIDKRNYQIG KTKVEPGV/EAWPLRRVRRQPD QRQGLGAHRAGEAPGTRGDAR PVHRGPLPQVGCCQPHSGAPAG AADRPRSSQAGELPHPRHHRGA EAVAAGAARAPHDLRTVRRLP PSRRAAGEAGAAGCH/RMP STFQKPTTTPWRDSSSTLSSNHP LTASGCAGWPCSRMST
7752	38120	C	7806	398	415	
7753	38121	C	7807	13	81	
7754	38122	B	7808	1	972	
7755	38123	B	7809	1	1803	

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7756	38124	A	7810	1	929	IAAAPELLERSGSPGGGGGAEE EAGGGPGGSPPDGARPGPSREL AVVARPRAAPTGPSSAAAMAR PLVPSSHKALLLELKGLEQEEPV EGFRVTLVDEGDLYNWEVAIF GPPNTYYEGGYFKARLKFPIDY PYSPPAFRFLATKMWHPNYETG YVCISILHPPV/DTPDQSGELPSE RWANPTQNVDRHSS*V*SSLLE RRPNTFLRPANVGRLPWMLQG SWEREQGGRIRELHRTSFRKQV LGTKVDAERDGVKVPTTLPEY CVKDQGRRAPDEGSDLFYDDY YE\ DARVE\EEADSCFGDDEDD
7757	38125	A	7811	2	296	LSLSFFVKAHFYVKSMLHSKD ASGISGMDFYVVQ*FSWQTAY AGEVGRWLSPALTERGSGQTL* TWCWRVFCVCLE\GHMWVTEA YVTVKH*NYSKVK
7758	38126	A	7812	397	410	SPGEI*G*VPPLLG*GVLLYQPP LFKIWEAPLLPDLLQ*KLKSL WLNKALGK
7759	38127	A	7813	2	739	ELCALVFGVNTFFATIVKTIITFI VSDVRGLGLPVRKQDSVVVFL DCPSIW*LRYIDLLILRVHLQIH LWGLRGRRAEFKHI/RSAAEEKK LTRIPSVNGE*TGKSPAPANSPP RGARDMWRTGRPAPRRPLVGG PSPSDRGPASTTSPELAVGAVN GGPSSANISRGFWQQSFHGNMC WFCAPGVAGVPFTANIAGTEP GGLGQGRQCSLATQCHKPELK LQAKPAFPFSFSLSLFFLLKHIL

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7760	38128	A	7814	594	2868	CWTSRNRPRIPGSCHPMELPRPF RGKAKVQNHQLVHHNKALIN RGS LTFWLD DGA IQA WHCPVK TYYQYTPVSSKAMY/DAFWNG/ KFRDC/AFHSWL NEDPFVCEYQ GQSSDLPPPVNAGGGSGGGS GGGSEGGGSEGGGSEGGGSEG GGSEGGGSGGGSGSGDFDYEK MANANKGAMTENADENALQS DAKGKLD SVATDYGAAIDGFIG DVSGLANGNGATGDFAGSNSQ MAQVG DGDNSPLMNNFRQYLP SLPQSVECRPYVLSAGSEIGAA CASRSGYDNKGVRDIGYTDCK RSEDLDPLRHQILGGKKAIQFTL QGFTLPEGAPAGNSGLAVHK TAQSSYRHHALLITPMSGTRF PPIPGPVVNIRVFPFAPSSECRIC YSWSWVPGSPVHCQSDGSVIP SYAPLASQYSSSFLFFRNRPYA PYDYL SVMTPSRTLREQIRIYA PSAPRLPPEVYCSNSTIVYVRN NPSGPTPGFAGGTLLEGRSGGP FRFYAKRAKGDVLPFSLNPL QTLIRFMVDIACGMEYLSSRNFI HRDLAARKCMYEFWRTRGWE TAAAYYGGGTTFRKE SQKLQ QSAKKRDAELANGALGIIELNN DYTLKKVMKPLITSNTVTDEIE RANVFKMNGKWYLF TDSRGSK MTIDGINSNDIYMLGYVSNLT GPYKPLNKTGLVLQMGLDPND
7761	38129	A	7815	2	474	RRFVSADNCRSLRWKSLYTPLD ADASVLSTGIDATQTNHGRQH LDETQVRVFGQHLMQGSYTTQ DGRSDVAISCCKLEMCAQQSY DQLLAATENWRQWWQKRRIT VNGG/GSSPASDADQTPAPGFR RDVGDRDWFAWRQCLLKSAIT RRRPVAYIVISSAMSGSCLPKQS D
7762	38130	A	7816	302	409	
7763	38131	A	7817	199	359	ARRQQVSVKSYRWEEDQHCG ELQGSE*VSDGLFKPP*S*HGW VEEERQKEQN
7764	38132	A	7818	1853	2032	VKQSTALLPHAVAC*PKVISSG ARGLKSILVLIRIVMMVMSMLP QLALSGWGRFRVLPG

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7765	38133	A	7819	118	445	AAGGEPGDAPWVPGVWEPPE VCRGPPPSSTFPHVPLSTFGASG PENSRDSCSWLSPQH*AA*VASG NNGPQAAQGSLSGIPDAATLSG I*RASILHVSVEIISSPGFR
7766	38134	A	7820	1	770	MRVLGIETSCDETGIAIYDDEK GLLANQLYSQVKLHADYGGVV PELASRDHVRKTVPLIQAALKE SGLTAKDIDAVAYTAGPGLVG ALLVGATVGRSLAFALGRFGDP CTPYWRASVSARCWKIPAPNFR CALLGSAAYAVNHGTGLSKKP TTLGSDHSKTPAQLAKRAGEA RRNGWQGALFPWESARSGEEE TP/VICRH*HSHRAAAKSGLGA GGTSSGGRYRLGGYSILADHGG *KFHCA*RHGATSGDGKVL
7767	38135	A	7821	3	834	VGRVEIADQYQDLAILWNC LG SDHASSRQRRPFRGKAKVQNH QLVHLQQSSHQPWLPHFLAG* WGDSGLGGGS\EGGGSEGGGSE GGGSEGGGSGGGSGSGDFDYE KMANANKGAMTENADENALQ SDAKGKLDSVATDYGAIDGFI GDVSLANGNGATGDFAGSNS QMAQVGDGDN SPLMNNFRQY LPSLPQSVECRPYVFGAVRHDV RRIRVTGVTRVTPPEEVDTSVH SRGAHRIRSGFAPKRSVRVTTD TCIKRNSTCGVKSLSLWDGGGF
7768	38136	A	7822	1	1044	

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7769	38137	A	7823	3	1472	GVVGERAGMARPGRPREGGGS G/GYSRPVPPAGGPGP*RGRTRI/ SGLANGAGPVVFQFLTELTRLF QKCRITSGSVYITLKKCKQREGS RAMLPGFPTPVSSKAMYDAY WNGKFRDCAFHSGFNEDPFVC EYQGQSSDLPQPPVNAGGGSG GGSGGGSEGGGSEGGGSEGGG SEGDGSEGDGSGGGSGSGDFD YEKMANANKGAMTENADENA LQSDAKGKLDVATDYGAID GFIGDVSGLANGNGATGDFAG SNSQMAQVGDGNSPLMNNFR QYLPSLPQSVECRPYVFGAGKP YEFSIDCDKIKILRGVFAFLLYV ATFMLPVIANIAIPQKRPFMQQT RCEVQCREIDIEVQKLKSYDKLL ASINKKPGVNGWQKRRTVNA GEAHDQQALDYALYHLRIMTP AHDERSIAAKGLTGEYKKGH VFWDTEVFLLPFHLFSDPTVAR SLLRYRWHNLPGRARRKRDGN GWAGGAPISVGKARAAAKK
7770	38138	A	7824	601	853	
7771	38139	A	7825	2	644	MAQQQ/RKFQAHKPAKSKTAA/ A/ASEKNRGPRKGGRVIAPKKA RVVQQQKLKKVSLCCSGWS*T PGLKASSRLCLPKCWDYRRDTL WLFLSATFICRWNLKSESGKK IEHDVVMKA\SSSLPRKLALLK APSPRRNGAAAATSSKTPSLRT AGPQLQGQHPTPLPSIWGPLQV NSHRLSLFRMRTLSPSDWASPR HSSGGPKGAENPGNDQGRYSH
7772	38140	A	7826	1	2616	
7773	38141	A	7827	1	504	

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7774	38142	A	7828	1	1068	MAEIQHKTIRPLLEGRDLLAAV KTGSGKTLAVLIPAIELVVKLKF MPRNGTGVLLSPTRQLAMQTF GVLKELMTHHVHTYGLIIGGSN RSAEAQKLANGINIIVVTPGRLL DHTQNTPGFMYKNLQVEDLAR ISPKKEPLYVGVDEDKANATVD GLEQGHFVCPSEKRYLLFTFL KKNQKKKLMVFFSACMSVKYP YGLLYIDL/PVLAIHGKQKQN KHTTTFF*YCNADSGTLLFQLE KLIEKNYFLHKS AQETYKSYIR AYDSYSLKQIFNNLNLPHIAL SFGFKLPPFVDLNMNSNEGKQK KQGGFGYQKTKKVEKSIIFKHIS KKSSAAGSSLTQEMPVILNNF
7775	38143	A	7829	3	1851	
7776	38144	A	7830	1	905	MVFDKAYLTGWRFEDTVVQSN MKHQPFIVVNKHNVQVEYKGE TKSFYPEEVFFMVLKMKIEAET YLGKTVTNAVVTVPAYFNDSQ HQATKDAGTIVSLNVLRIISKPT AAATAYRQKGIDFNSTIFHALF EELNAYLFHGTLDSEKALGN AKLDKSIHDIIVL/GPFEQGRH* MYGPGS*EIQS*R*EAEGQDVIQ EFS*KLCIRYESSC*R*ETSRQD* R*GQTEDS**GY*NYQLAG*ES DSEEGRISTSKSGESLQPHNYQP VPEYRRHTRRNAWGIP*WWSS LCWSFPRAPIEEAD
7777	38145	A	7831	2	886	ARGACSSWVFCGLRYWSQAY TPATMSKGPVAGIDLGTTYSCV GVFQHGKVEIANDQGNRTTPS YVAFTDTIERLIGDAAKNQVAM NPTNTVF\DAKRLIGR\RFDDAV VQSDMKHWPFMVVNDAGRPK VQVEYKGETKSFPDEVSSMV LTKMKEIAEAYLGKTVTNAIV VTVPV\YFNDSQRQATKDAGTI AGLNVLRINEPTAAAIAAYGLD KKVGAERNVLIFDLGGGTFDVS ILTIEDGIFEVKSTAGDTHLGGE DFDNRMVNHFAEFKRKHKKDI SENKRAVRLRRTTK
7778	38146	A	7832	2	375	ASIEIDSLYEGIDFYTSITRARFE ELNADLFRGTLDPVEKALRDA KLDKSIHDIIVLVGGSTRIPKIQ KLLQDFYEAVAYGA AVQAAIL SGDKS\ENV\QDLLSLADVTPFP LGIETAGG\VMTPVPH

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7779	38147	A	7833	1	218	
7780	38148	A	7834	508	883	YYHSYQADT/HLGGEDFDNRM VNHFAEYKRKHKKDISENKRA VRRLRTACERAKSTVSSSTHAS TEIDSLSEGIDIYTSSTCASFEEL NADLFLSTLDPVEKALRDAKLD KSQIHDIALSINPDEAVAYGAA VQAAILSGDKSENVQDLLLLDV TPLSLGIETAGRVITDLIKHNTTI PTKQTQTFTTYSNQPGLIQL YEGEHTMTKDDNLLDKFELTGI PPAPRGVPQIEVTFDTNSNGILN VSAVDKSTRKKNKITITNDKGH LSKEDIEYMVQEAKEYKAEDQ KQR/D/KVSSKNSL
7781	38149	A	7835	1	194	
7782	38150	A	7836	1	1482	MVFDAKRLIAHRFDDAVVQSE MKHWPFMVVNDAGRPKVQVE YKGESKSFYPEKVSSMVLTNM KEIAEAYLGKTVTHAVVAVPA YFNDSQRQATKDAGTIVGLNV LRJINEPTAAAYGLDKRHRSSLP ILTASL\GAGSGL*STQA/SIEIDC LYEGINFCTSITHARFEELNADL FRGTLDPVEKALRDAKFDSQI HDIVLAGGSTRIPIQKLLQDFF NGKELNKGINADEAVAYGIAV QAAILSGDKSENVQDLLLFDVT PLSLGIETAGGTQILTTYSDSQP GVLIQAYEGKHAMTKDNNLLG KFELMGIPAPRGVPQTEVTFD SDANGILNVSAVDKSTGKENKI TITNDKGCLSKEDIERMVQEAE KYKAEDEKQRDKVSSKNSLES YAFNMKATVEDEKLQGKINDE DKEKILDKCNEIHWLNENETAK KEEFEHQQKELEKVCNPIITKLY QSAGGMPGRMPGGFPGGGAPP SGGASSGPTIEEVD

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7783	38151	A	7837	2	2221	PRVRPRVRSPAALGFFVASFVIG ARPTPQQPWSKGPVAGIDLGT YSCVGVFQHGKVEIIANDQGN RTTPSYVAFTDTERLIGDAAKN QVAMNPTNTVFDCTV*LDGR FDDAVVQSDMKHWPFMVVND AGRPKVQVEYKGETKSL\YPEE VSS\MLVLT\KMK\EICRSLTLGKT VTNA\VVTVPS\YFND\SQRQAT KDAGTIAGLNVLR\INEPTAAA IALQKFRQKRFGAERNVLIFDL GGGTFDVSILTIEDGIFEVKSTA GDTHLGGEDFDNRMVNHFAE FKRKHKKDISE\NKRAVRLRT ACERAKRTLSSSTQGSIKIDSL* EGIDFYTSITRARFEELNADLFR G\TLDPGEKAL\DAKLDKSQIS *YLSWVGGSYSYPRQLKSCCQ DFFQWEKELELRSINPGWKAV/ AFIGAAVPGQPFLSGRQVLENV QDLLLL\DVTPSPWVLKTAGG VHDCPPSKRNTTIPTKQTQTFTT YFWTTQPGCGLFRFYEGRALP WTKDNQPALASFELTGIPPA GV\PQNEVTFDIDANGYTPWSL AVDKKYGKKRTKITITN*QGP *AREDIGTYGSREAEVTKLEG GGRQEGTRVSSNDFT*GMPFN MKSTLLKDEKL\QGRINDEGQ NRRFLDQV*LKLSNWL**ESRL LEKEEFHQ\KELE*\VCNPIIT QAGTQSARRHCQGGNPWGAFL
7784	38152	A	7838	3	757	PFPGRVRLHPVILASTVDSY ERRNKGAARVIGTLLGTVNKH SVEVTSCFSVSHNESDEVAVDM EFAKNMYEL/H*KVSPNELILG WHDITEHSVLIHEYYSREAPNP IHLTVDTSLQNGHMSIKAYVST LMGVPGRIVGVFTPLTVKYAFY DTECIRVDLIMKTCFSPNRVVG LSSDLQQVGGASARIQDTLSIVL QYAEDILSGKVSADNTIRKVGH FLMSLVNQVPKIVPDDFETMLH SNINDLLMVT
7785	38153	A	7839	1	1821	
7786	38154	B	7840	16	1305	
7787	38155	A	7841	1	359	

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7788	38156	A	7842	2	1085	GVAPWGRGRAAPRCASATVGG SGIGRLR\GITSSGL\KMDNKKR LAYAIIQFLHDQLRHGGLSSDA QESLAEVAIQCLETAFGVTVEDS DLALPQTLPEIFEAATGK\EMP QDLRSPARTPPSEE\DSAEAEERL KTEGKPKQMK\VENF\EA AVHF LTEKPFELNPSQRPSYFCNRAA AYSKLGNYAGAVQDCERAICID PAYSKAYGRMGLALSSLQQHL\ EAVAYYKKALELDPDNETYKS NLKIAELK\LEAPSPTGGVGSF DIAGLLNPNP\GMSMASNLMMN PQIQLMSG\MISGGNNPLETP GT\SPS\QNDLASLIQ\AGQQFAQ QMQSVGIPRVV**SAQESSIRSR TPSASNDQQE
7789	38157	A	7843	225	398	FIIDYTNSCIFHQNICLICSNRNF RQSNVVMICHY*TLQEIKTFC* MNSSLWSIIF
7790	38158	C	7844	162	269	
7791	38159	A	7845	273	501	HKDQPIQTENDHPSTNFSFVLK LHDPLLNEMDLIVVVSF*Q*SC FYLVHPNCCSPLV*HP*SENPKF SNEYFLRVS
7792	38160	A	7846	1	867	
7793	38161	A	7847	185	1325	EEQQTNLASKKKSCIMLEKTEN KIRLVIVSEEEKKKVLKRMP*K MTVRAHHGISRTPHSWVESN\Y YWDICDQWMS/EPVGYMPCQH CQVAKNTVIVAPKQHLLQGGKI PWSLVTVDLMGAFSYKPQKS/N VYAIIMTDLFTKWIVILPLCDVS ASEVSKAIINIFFLYGPPQKIIMD QRDEFIQQINIELYRLFQIKQIVI SHTSGTVNPTTESTPNTIKAFLSK HCADHPNNWDDHLSAVSFAFN VTHLEPTKNTPYFQMFKVEKNP LYYLPETSDSLHEVDGDNTSMF AKILDAIKEADKIMENKTTSLG QMENNNDDELNKSIIIVKKKPK QLNPFHLKVGHGSFKTKEKLV GRMVVFQSWNGVGPLCHRLY YRKWMCCP
7794	38162	A	7848	2	455	MADRLTQL\QDAVNSLADQFC NAIG\VLQQCVPPASFNNIQTAI NKDQPANPTEEYAQLFAA\LIA\ RTAKDIDVLIDSLPSEESTAALQ AASLYKLAEENH\EAATCLGG MLFIEGDMLLGGRYKGALA\DI\ AQSQLEGQSGYP*ASLFPDS

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7795	38163	A	7849	229	560	
7796	38164	A	7850	1	1077	
7797	38165	A	7851	25	690	WPSDEAEGYSEHFVEFVKDVR KRFPQHTIMAGNVVTGEMVEE LILSGADIIVGIGPGSVCTTRK KTGVGYPQLSAVMECANAAH GLKGHIISDGGCSCPGDVAKAF GAGADFVMLGGMLAGHSESG GELIERDGKKYKLFYGMMSSEM AMEEVLLGGVAEYRTS\EGKT VEVPF*REMLEHTIPRHP*GGIR S\TCTYVGA\AKLKRR*ARTNYL HPEVHPAR
7798	38166	A	7852	768	1857	EGGHHFGGQGADSAAFPGSASI LPIKLDVHPHDGRRRAEKS KPG GNPQRQLYCQPPAGCLPGA VY RPRRSRGARMYSRYSPAERRNP DQRAGYCQAPDRLRFSRADD C RSRWRHV FHGTSRHCAGDRAV RPPPHSAAEALPVALPVFQ*PTA DQ\VLFPSLIAACYN NHQNKIIL EQEMSCVLLATFIQTRAQQRKY KRRNNRGIPRESTAREQARHNA NKAQQPRKHARNGASPAQQRK NRAAARDKDEKPAQQKDKAR QSAPEKKNR AIRGTNSREQA AK AERNRRQRGGQKGAQQGQHR EEAGEPTYVDEKAQAATSPPPQ TPHPAPDHDDAEDHRTD TNR NAHQPKVYTHKDTPTNESR
7799	38167	A	7853	1403	2028	RRIQTNGRTFHAHGGPSRGLPE ELGKDHREKETSSRTL*QFQPN AKSPGQNLRESMN PVC/MTQQ ARRLQRLAKDLLKQVQVQDSG SWANNKVSALDRTLGEITRILE KERSRRGKGPSKEDLEGAAN/G VVRTM/WMSGNLVKESQPHPT HRPNILT*YPSIFP*RSTLLTLWL KVQLQQKL*KMEKSGKKIKKK PKR*KPG*TSGLNTL
7800	38168	A	7854	1	675	

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7801	38169	A	7855	2	1110	AQEEEAQVNEIAFINTLEAQNKRHDVLSKLKEYEQRLNELQEERQRRQEEKQARDEAVQERKRAL EAERQARVEELLMKRKEQEARIEQQRQEKEKAREGAARERARD REERLAALTAAPRSYGRVTEKNSAQ**KYSKAH/RNRLNKEK KKLLS*AVGDMQILIMPPN*PL YERKKQCSLCNVLSSEVYLFS HVKGRKHQQAVRENTSIQGRE LSDEEVEHLSLKKYIIDIVVEST APAEALKDGEERQKNKKKAKK IKARMNFRAKEYESLMETKNS GSDSPYKAKLQRLAKDLLKQV QVQDSGSWANNKVSALDRTLGEITRILEKENVADQIAFQAAGGL TALEHILQAVVPATNVNTVLRN
7802	38170	C	7856	65	425	
7803	38171	A	7857	1	1131	
7804	38172	A	7858	953	1311	FLFFIFFNYFFFGGRKCPLLVA RLEVQMAVILGSLQSPPGFK* FSLPQSPSSWDYRHAPTHAQP NFVFLVETGFHHIGQAGLELQT SGDPPTSASQTAGITGVSHRAW PGTILFLK
7805	38173	A	7859	2	857	FVDIFQRWKECRGKSPAQAELS YLNKAKWLEMYGVDMHVVR GRDGCEYSLGLTPTGILIFEGAN KIGLFFWPKITKMDFKKSKLTL VVVEDDDQGREQEHTFVFRLD SARTCKHLWKCAVEHHAFRL RTPGNSKSNRSDFIRLGSRFKFS GRTEYQATHGSRLRRTSTFERK P**TSLIPETFNVQSKQPSDSSPA LLLKQIQKS/NNYQPPISILISIPS PAPGGILT PQMSGHPFQDDRS H WKASASGDDSHFELCPTTQNPE GTLGGMPKYDVSEINVM TAL

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7806	38174	A	7860	1	936	MELTHLQPHEPQEDVHAVGLL LGLREQHHMVSEGPRQQSWQE ERTELAASRLLFNMYPLLIHK NHASPGIPNLLLHPRGLRAITIA VFGKQNTYIRLEPFKINVLEQIT KHIEKLQCGEHNFPQEIQEGK SHQNQHEAHFVVELCKYFLCQ EYLPSQITILTTYTGQLFCLRKL MPAKTFAGVRVHVVDKYQGE ENDIILLSLISNRICVALSRAKKG MYCIGNMQMLAKVSLWSKIIH TLRENNQIGPMLRLCCQNHPET HTLVSKASDFQKVTEEGC/MLP CEFRLGCGHVCTRAWHYPYDSS
7807	38175	A	7861	218	580	
7808	38176	A	7862	3	1636	
7809	38177	A	7864	24	386	
7810	38178	A	7865	2	999	GRVGFFFAGNPGSDSPFGLLLG LTPVLRWVADGGTIPKRHE\LV KGPKKVEKVDK\ETELVAQWN YCTLSQE\KLRRPIVAL/CNFAD FYNK\EPVIEFLDKSAEKGS/SG RQASHIKTH*RIVDRAESFPDNP CPGKGIGKN/D*KVDKHDDLQA GASSSPVGGPGRWNGRHRFLL PSGGCGLCCFS*AEPWKEIKAG V\CHTCGAGLSRRMMIIVLNGT KEDVDLLKTMMEEERRL*SEAG KENKENPRQQSLFQNDVSERS PRAIKS*DRGSLKKPAFDSREK KTNLAPKSTAMNESSSGKAGK PPCGATKRSIADSESEAYKSLF ITHSSAKR
7811	38179	A	7866	1	559	MGCDGGTIPKRHELVKGPKKV EKVDKDAELVAQWNYCTLSQE ILRRPIVACELGRLYNKDAVIEF LLDKSAEKALGKAASHIKSIKN VTELKLSERALKEIKAEVCHTC GAAFQEDDVIMLNGTKEDVDV LKTR\WRREG*ERRGKKKTKKP KAAEVCFQNPVDSGRKPQGPS KVKTREALKKPSP
7812	38180	A	7867	188	368	YVACMPAWPNVTVANQLFNV YFPARDMTVPSSPG/QPVVDQL STQGQARRDALEVVGYES
7813	38181	A	7868	179	554	LRPADPRSLVPGWALGLGPGAI LGPGRVTFPGGRPPPTHTPPSLSF PPGGRQPLWVPALPAEEGRE/R LGREREGRGKAGAGMA*AGL VL*CLQLQVQGQPLGGSWLST RLRSPRCHPWLLRRHLP

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7814	38182	A	7869	2	131	YKSELEEQLTSVAEEMRARLSK ELQA*KDRLGENMEKVRGRVLV KYRGEVQAMLGESIEELRVRLA LYLRKLCTGFLRDADHL*RPA GREYGESKRTL
7815	38183	B	7870	1	3639	
7816	38184	A	7871	279	1077	IQHPRLSADDFRVNCETEPAM/* HAVENDIHGLCELQLETEIQAF KEELL/FMKKNHEEEVKGLQAA IASSGLTVVVDAPISQDFAKIMA DIWAQYDEVAQKNREELDNNR SQQIEESTTVVTTQSTEVGA AK AMLTELTRTVQFLEINLDSMRN LKASLENSLREVVARYALQME QLNGILLHLESELAQTWAEGQC QAQEYQALLNIKVKLEAAIATY RRLLEDGKDFNLGDTLDCSNS MQTIQKTTTRQRMKGVLSET NDTKLRH
7817	38185	A	7872	712	855	
7818	38186	B	7873	50	788	
7819	38187	A	7874	201	372	ICQMILKRRVLS*TQKHQATHG WNSAYSALTAPFPVSCQDHLC*P L*AEAQISKEEP
7820	38188	A	7875	3	323	FFFETEFHSAQTGVQWHPSS PQPPPPRFK*LSRPSLPSSWDYR HVPSPHGNFLHFQ*KRSTNQ A GLELPTSGDLAAFA\SPSARITG VSHCARPNYQCFLEFKY
7821	38189	A	7876	1	911	MLLTLAGGALFFPGLFALCTW ALRRSQPGWSRTDCVMISTRV SSVHAVLATGSGIVIIRSCDDVI TGRHWLAREYVWFLIPYMIYD SYAMYLCEWCRTDQNRAPSL TLRNFLSRNRLMITHHAVILFVL VPVAQRLRGDLGDFVGCIFTA ELSTPFVSLGRVLIQACMNEMT ESLKQQHTLLYKVNGILTLGNF FPCR\ILLFFPMV\WSYGRKKGL SLVPSTLQHPILTATWANAFPR* APQIYWFCLLLQ\KAVRLFDT P QAKKDG*MLLGVRRLTPAAS STQHSMDQIVPWVASDFGY
7822	38190	A	7877	2	283	SCHCTPAWILALSPRLECSGAIL AHCNLHLWG*SDSPASASRVA GTAGAHCAWLIFCVLVEMGF HRVAP/GLVLNS*AQTIRLPRPP KVLGLQA

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
7823	38191	A	7878	1	1042	PKVRSPIKRLAPAPAFVVRKQE LKKIVDP\LL*KKS*EFGHLDRDI QPQKRPPPLL*KWPR\YIR\QG RRAILYK\RLKGFCDYPGFTQG PGTPQTS*SSLLKLAHKYRPRD KAQRSKQR\LLA\RAEKAAAK GAVPQERAHVPVLRAGV\NPVSP PLVGEQEKLSLVVIA\HDRGSPS ELVVFLPALG/RVKMGVPYCIK GKGKTGDGLVHQKALHPLSAF TQ\VNS\EDKGAF/ALKLVGSYQ GPNYNDRYDEVGRSFTQNTVIH KSFSQITGWLNL*EVLSDDQLG TAKQN*RN**P*KSQKTVSQAN CLFLSFQIRRHWWGGNVLGPKSV ARIAKLEKAKAKELATKLG
7824	38192	A	7879	3	472	GRGVAYRGSPRGTPGGRGDE RLQHGGG\SREGPPAAPAAAP GYGQSCCLIEDGERCVRPAGNA SFSKRVQKSISQKKLKLIDIKSV DLFQLQVNTLRRYKRHYKLQT RPGFNKAQLAETVSRHFRNIPV NEKETLAYFIYMVKSNSRLDQ
7825	38193	A	7880	3	638	GRGVAYRGSPRGTPGGRVR*T ASARRRTAAKGPPPPQLPPRA TAKSCCLMEDGERCVRPAGNA SFSKR\VRKSISQKKLKLIDIKS VRHLY\CDFHK\NFIQ\SVRNKR KKEDQVYDGRENS/SPSTDIDIP EVD\LPACQVNT\LR\RYKRH* QVARPRPGFNKAPVSRQL*VDT FRNIPVD*KETLALLSSSMVKSN KSRLDQKSGGWQAA
7826	38194	A	7881	1926	2448	DFIAVITTRKQLKTKYNAHHSK QAITKHFSKISDLILCLKKKIM NRHFSKEDIYAAKKHMKKCS SLAIREMQIKTTMRYHLTPVRM AIIKKSNNRRCRRGCGEIGTLLH CWWDCCLVQPLCKSMWRFLR DL\DPAILLGIYPKDYKSCCYK DTCTRMFIAALFTIAKTWNQP
7827	38195	B	7882	446	625	
7828	38196	A	7883	1	1875	

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7829	38197	A	7884	31	809	KPRLenyVKNAEASGADAINW KKGy/LVMEDEMNMKREGKF REKRIKRNEQSLQEIWDYVKRP TLHLIDVPETLNAHKRKQERSK TDTLTSQLKELEKQEQTHSKAS RRQEITKIRAELEKEIETEKTLQKI NESRSWFFERINKIDRPLARLIK KKREKNQIDAINKDKGDITSDP TEIQTIREYYKHLKYANKLENL EEMDKFLDITYTLPRLNQEEVES LNRPIGSEIVAIINSLPTKKSPG PDGSTAEFYQRYKEEL
7830	38198	A	7885	1	2142	MIILIDAEKAFDQIQPFMLKTL NKLIGDGYTLKITRAIYDKPTA NIILNGQKLEAFPLKTGTRQGCP LSPLLNFIVLEVLAQAIRQEKEI KGIQLGKEEVKLSLFADDMILY LENPIVSAQKLLKLISNVSKVSG YKINVQKSQAFLYTNNRQTESQ IMSEFPFTIATKRIKYLGIQLTRD VKDLFKKYKPLLNKIKEDTNK WKNIACSWIGRINIMKMAFPR WELNNENTWTQEGEHTLGPV VGWGKRGGIALVDIPNVNDKL MVLEVLARAIQKKEIKGIQLG KEEVKLSLFADDMIVYLENSIV SAQNLKLISNFSKVSQYKINVQ KSQAFLYTNNRQTESQIMSEFP FTIATKRIKYLGIQLTRDVKDLF KENYKPLLKEIREDTNKWKNIP CSRIGRINIMKMAILPKVIYRFN DPIKLPMTFFTELEKTTLKFIW NQKRACIAKTILSKKNIAGGITL PDFKLYYKATVTKTAWYWYQ NRDIDQWNRTEASEVTSHIYNH LIFYKPDKNKKWGNDSLFNKW CWENWLAICRKLKLPFLTPYT KIHSRWIKDLNVRPKTIKLEEN LGNTIQDIGMGKDFMTKTPKA MATKAKVDKWDVIKLSFCTA KETTIRVSRQPTWEKIFAIYPS DKGLISRIYKELKQIYRKKTNN PIKKWAKNMNRHFSKEDIYAA NRQMKKCSSSLVIREMQIKTTM

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7831	38199	A	7886	209	3816	QGRPTFRFRKYREHHKDTFREE QLQDT*SSDSPKLK*RKKC*GQ PERKVKLPKKGSPSD*KRISRQ/ KTLQARRQSWFFEKINKIDRPQ ARLIKKKREKNQIDTIKNDKGD ITTDPTIEIQITIREYYKHLANK LENLEEMDKFLDTYTLPRLNQE EVESVNRPTGSEIEAITNSLPTK KSPGPDGFTAIFYQRYKEELVP FLLKLFQPIEKEGILPNSFYEASII LIPKPGRDTTKKGFRPISLMNI DAKIL
7832	38200	B	7887	1	3570	
7833	38201	A	7888	2	1624	
7834	38202	B	7889	67	3156	
7835	38203	A	7890	1	1416	MIILIDAEKAFDKIQPFMLKTL SKLGTGTYLKIIRAIYDKPTAN IILNGQKLEAFPLKTGTRQGCP SPLLFNIGLEDLARAIRQEKEIK GIQLGKEEVKLSLFADDMIVYL ENPIVSAQNLLKLISNFSKVS KINVQKSQAFLYTNNRQTESI MSELPFTIASKRIKYLGIQLTRD VKDLFKENYKPLLKEIKEDTNK WKNIPCSWVGRINIVKMAILPR DIDQW/NRTEPSEIMPHYNYLI FDKPEKNKQWGKDSLPHKWC WENWLA VCRKLKLDPLTPYT KINSRWIKDLNIRPKTIKTLEEN LGITIQDIGVGKDFMSKAPKAM ATKAKIDKWDLIKLSFCTAKE TTIRVNRQPTTWEKIFATYSSD KGLISGIYNELKQIYKKKTNNPI KKWAKDMNRHFSKEDIHAAK KHMKKCSSLAIREMDIKTTMR YHLTPVRMAIIKSGNNRCWR GCGEIGTL
7836	38204	A	7891	1	1932	

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7837	38205	A	7892	1	2347	MELKTKARELHDECTSLSSRFD QLEERVSVMEDEMNMNLPTK KSPGPDGFTAIFYQRYKEELVP FLLKLFQSIEKEGILPNSFYEPSII LIAKPGRDTTKKENFRPISLMNI NAKILNKMLANQIQHHKKLIH HDQVGFIPGMQGWFNIRKSINV IQHINRTKDKNHMIISIDAEKAF DKIQQHFMKLKTLNKLVLVLA RAIRQEKEIKGIQLGKEEVKVSL FADDMIVYLENPTVSAQNLLKL IGNFSKVSQYKINVQKSQAFLY TNNRQTERQIMSELPFTIASKRI KYLGIQLTRDVKDLFKENNKPL LKEVKEDTNEWKNIPCSWVGRI NIVKMAILPKVIYRFNAIPIKLP MTFFTELEKTTLKFIWNQKRAC IAKSIFSQKNKAGGITLPDFKLY YKATVTKTAWYWYQNRDIAQ WNRTEPSEIMLHIYNYLIFDKPE KNKQWGKDSL FNKWCWENWL AICRKVKLDPFLTPYTKMNSR WIKDLNVRPKTIKTLEENLGITI QDIGVGKDFMSKTPKAMATKA KIDKWDLIKLSFCTAKETTIRV NRQPTTWEKIFATYSSDKGLISR IYNELKQIYKKKTNNPIKKWAK DVNRHFSKEDIYAACKHMKKC SSSLAIREMQIKTTMRYHLTPV RMAIHKKSGNNRKIQ/GGIWCD RIL*R*TTCRVAKIQL*RR/W KRLQRTLSIPVLDAV*PPMF*AS
7838	38206	B	7893	1	1710	
7839	38207	B	7894	1	2265	
7840	38208	B	7895	1	2142	
7841	38209	A	7896	1	1791	
7842	38210	A	7897	1	1878	
7843	38211	A	7898	1	2091	

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7844	38212	A	7899	1	1751	MIISIDAEKAFDKIQPFMLKTL NKLIGIDGTIFYKIIIRANYDKPTA NIILNGQKLEALPLKNGTRQGC PLSPLLFNTVLEVLARAIRQEKE IKGIQLGNVEVKLSLFADDMIV YLENPIVSAQNLLKLISKFSKVS GYKINVQKSQAFLYTNNRQTES QIMSELPFTIASKRIKYLGIQLTR DVKDLFKENYKPLLKEIKEDTN KWKNIPCSWVGRINIMKMAILP KVIYRFNAIPIKLPMPPFFTELEK TTLKFIWNQKRARIKSIKLSQK NKAGGITPPDFKLYYKATVTKT AWCWYQNRDIDQWNRTEPSEI TPHIYNYLIFDKPEKDKQWGKD SLFNKRCWENWLAICRKLKLD PFLTPYTKINSRWIKDLKVRPKT IKTLQENLGFTIQDIGMGKDFM SKTPTAMGTDKIDKWDLIK KSFCTAKETTIRVNRQPTKWEK IFTTYSSDNGLISRIYNELKQIYK KKTNNPIKQWAKDMNRHFSIE DIYAAKHKMKCSSSLAIREM QIKTTMRYHLTPVRMAIIKKSG NNRNHLDFKHirilGICYL/D*KI YQP*LHLVSRNRKPEKLSPKQA

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7845	38213	A	7900	1	2540	MGDFNTPLSTLDRSTRQKVNK DTQELNSALHQPDLIDIYGTLHP KSTEYTFFSAPHHTYSKIDHILG SKALLSKCKRTEIITSYLSDHSAI KLELRIQNLTONHSTTWKLNNL LLNDYWLHNEMKAEIKMFFET NENKDTTYQNLWDAFKA VCR GKFIALNAHKKRQERSKTNTLT SINKIDRPLARLIKKKREKTQID AIKNDKGDITTDPTMQTTIRE YYKHL YANKLENLEEMDKFLN TYTL PRLNQEEVESLNR PITGAE IVAIINSLPTKKSPGPDGFTAIFY /HEL LKENKIPRNPTY/RGCEGP LQGE LQTTAQ*NKRGYKQMEE HSM LMDRKNQYRENGHTAQG NLQIQCHPHKATNDFLHRSGKN YFKVHMEPKKSPHRQVNP KPK EQSWRHAI*LQTILQGYSNQN SMVL VPKQRYRSMENRRLRN NAA YLQLSNL*QT*EKQAMGK GFLI**MVLGKLASHM*KAETG SLPYTLYKNQFKMD*RLKH*T* NHKNPRRKPRHYHSGHRHGQG LHV*NTKSNGNKSQN*QMGSN *TKELLHSKRNYHQSEQATYKL GENFCNLPI*PRANNQNLQ*TQ TNLQEK NKQPHQKVGKGHEQT LLKRRHLCSQKTHEKMLSITGH QRNANQNHN EIPSHTS*NGNH* KVRK*QVLNGLDDVQLFR*NK QPCCSHKACL VVSSYRRA*SLV

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7846	38214	A	7901	1	1593	MGKKQNRKTGNSKKQSTSPPP KERSSSPAMEQSWMENDFVEL REEGFRRSNYSELQEDIQTKGK EVENFEKNLEECMTRITNTEKC LKELMELKTKARELHEECRSLR SRCDQLEERVVSAMEDEMNEMK REGKFREKRIKRNEQSLQEIWD YVKRPNLHLMGVPESDGENG KLENTLQDIIQENFPNLARINKI DRPLARLIKKKREKNQIDTIKN DKGDITTNPTIEIQTIREYYKHL YANKLENLEEMDTFLDTYTLPR LNQEEVESLNRPIGAEIVAIINS LPTKKSPGPDGSIAEFYQRYKE E/PADKQLQQSLSIQNQCTKITSI LIHQQTNRPNHE*TPIHNCFK ENKIPRNPTYKGCEGLLPGELQ TTAQGNKRGYKQTEEHSMLM GRKNQYRENGHTAQGNF*IQ HPHQATNAFLHRIGKNYFKVH MEPKKSPHRQVNPKEQSWR HHTT*LQTLQGYSNQNSMVLV PKQGYRSMEQNRLRNNAAYL QLSDL*QT*EKHAMGK/EFPI**
7847	38215	B	7902	1	2337	
7848	38216	B	7903	1	1677	

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7849	38217	A	7904	1	1722	MAGYPSEMKLPEELSGSNICCS AVFTVLQPLLLIPRQTGSGVDL RQTPTDLQLRVLTVRRKNNKQ KRTSTPKPHLYVTIIKDQRSKKL TQNHSTTWKLNLLNDYWV NNEMKAEIKMFFETSENKGTIY QNLWDTFKAVCRGKFIALNAH KRKQERSKIDLTSQLKELEKQ EQTHSKASRRQEITKIRAEQKEI ETQKTLQKINESRSCFFEKINKI DRLLARRIKKKREKNQIDAIGN DKGDITADPTEIQTSTIREYYKHL YTNKLENLEEMDKFLDITYTLPR LNQEEDESLNRPITGSEIAIINS LPAKKSPGPDRTAEFYQRYKE ELHINRTKDKNHMTISVDAENA FDKIQQPFMLKTLNKLVLVLA RAIRQEKEIKGIQLGKQEVKLSL FADDVIVYLENPIVSAQNLLKLI SNFSKVSGYKINVQKSQAFLYS NNRQTESQIMNELSFTIASKRIK YLGQLTRDVKDLFKENYKPLL NEIKDDTNKWKNI PCSWVGRIN IVKMGI LPKV VYRFNAIPIKLPM TFFTELEK\TTLKFIWNQKRARI AMTILS*KNKAGGITLP
7850	38218	A	7905	1	2310	
7851	38219	A	7906	195	791	GILSFAKDMNRHFSKEDIYAAK KHMKKCSSSLAIREMQIKTTMR YHLTPVRMAIIKSGNNRCWR GCGEIGTLLHCWLDCKLVQPL WKS VWRFLRDLELEIPFDPAIPL LGIYPNEYKSCCYKDTCTRMFI AALFTIAKTWEPPKCSNMIDWI K/KMWH/IYTRDTMRPKNDEVQ SLVG/TWVNWETTF SVTIAVQK PTRLSH
7852	38220	A	7907	1	984	
7853	38221	A	7908	1	2076	
7854	38222	A	7909	1	1872	
7855	38223	B	7910	1	3309	
7856	38224	B	7911	133	3213	
7857	38225	A	7912	1	1364	
7858	38226	A	7913	1	3249	
7859	38227	A	7914	1	2757	

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7860	38228	A	7915	1	2268	MAGYPSETKPPEERSDSNICSSA IFTVLHPPLIPRQTAFGM DLQQ MPTDLQLRVLT VKRKT NKQKG HPHQNPRTSPSSKTEDFQPTKI KRDKEGHYIMVKGSIQEEELTI LNIYAPNTGAPRFI KEVLRDLQ RDLDSHTIIMGEFNTRLSTLDRS MRQKV NDKIQELNSALHQADL IDISRNLHPKSTEYTFFSAPHRT YSKIDHIVGSKALLSKCKRTEII TKCLSDHSAIKLELR IKNLTQNC STTWKLNNLLLN DYVWHNEM KAEIKMFFETSENK DTTYQNL WDTFKAVCRGKFIALNAHKRK QERSKTDLTSQLKELEKQEQT HSKASRRQEITKIRAE LQEIETQ RTLQKISESRSWFF EKINKIDRS LARLIKKKREKNQIEAIKNDKG DITTNPTETQTTIKEYYKHLYK NKLENLEEMDKFLNTYTL PRLN QEEVESLNR PITGSEIVAIINSLP TKKSPGPDGFTA EFYQRCKEEL VTFLKL FQSIEKEGILPNSFYE ASINLIPKPGRD TT KENFRPISL MNIDAKILNKILANRI/WGN*AE ERNKEYSIRKRG SQIVPVC R*H DCVSRKPHHLS PQSP*ADKQLQ QSLRIQNQCTKITSILIHQ*QTNR EPNHE*TPIHNC FKENKIPRNPT YKGCEGPLQGELQT TAQ*NKR GHKQMEEHSM LMDRKNQHRE NRHTAQGNL*IQCHSHQATNDF
7861	38229	A	7916	1	4729	

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7862	38230	A	7917	1	2685	MGDFNTPLSTLDRSTRQKVNK DTQELNSAPHQADLIDIYRTLH PKSTEYTFFSAPHHTYSKTDHIL GSKALLSECKRTEIITNYLSDDS AIKLELRIKNLTQNRSTTWKLN NLLDDYVWHNEMKAEIKMFF ETNENKDTTYQNLWDAFKAVC RGKFVALNAHKRKQGRSKIDT LTSQLELEKQEQTTHSKASRRQ EITKIRAELEKETQKTQKINES RSWFFERINKIDRQLARLIKKKR EKNLIDAIKNDKGDITTDPTIEQ TTIREYYKHLIYANKLENLEEM DKFLDTYTLPRLNQEEVESLNR PITGSEIVAIINSLTTKKSPGPDG FTAIFYQRAIRQEKEIKGIQLGK EEVKLSLFADDMIVYLENPIVS AQLISNFSKVSGYKINVQKSQ AFLYTNNRQTESQIMSELPFTIA SKRIKYLGIQLTRDVKDLFKEN YKPLLKEIKEDTNKWKNI PCSW VGRINIVKMAILPKVIYRFNAIPI KLPMTFFTELKTTLNFIWNQK RAHIAKS/VLSQKNKAGGITLP DFKLYYKATVTKTAWYWYQN RDTDQWNRTEPSEIMPRIYNYL IFDKPEKNQWGWKDSL FNKWC WKNWLAICRKLKLDPFLTPYT KINSRWIKDLNIRPKTIKTLEEN LGITIQDIGMGKDFMSKTPKAM ATKAKIDKWDLIKLSFCTAKE TTNRVNRQPTKWEKIFATYSSD
7863	38231	A	7918	1	1205	
7864	38232	A	7919	1	2274	
7865	38233	A	7920	1	2307	

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7866	38234	A	7921	569	3030	RKH*TWKRTSSTSHHKNNMPN* LEKQEQTH/SKPSRRREITKIRA ELKEIETPKTAQKINESRSWFSE RINKIDRPLARLRKKKREKNQI DTIKNDEGDITTHPTEIHTIIREY YKHL YANKLENLEEMDKFLDT YTLPRPNQEEVESLNGPIAGSEI QAIINSLPTKKSPGPDGFYQRYK EELVPFRLKLFQSIEKEGILPNSF YEASIIIPKPGRDTTKKNFRPI SLLNINAKILNKILANRIQQHIK KLMHHDQVGFIPGMQGWFNIR KSINVIQHINRTKDKNHMIIISID AEKAFDKIQPFMLKTLNKLGI DGTYHKIIRANYDKPTANIILNG QKLEAFPLKTGTRQGCPLSPLL FNIVLEVLARAIQKEKETEGIQL GKEEVKLSLFADDMIVYLENPI VSAQNLLKLISNFSKVSGYKIN VQKSQVFLYTDNRQTESQIISEL PFTIASKRIKYLGIQLTRYVKDL FKER/YNEIKEDTNKWKNIPCS WVGRINIVKMAILPKVIYRFNAI SIQLPMTFFTELEKTTLKFIWNQ KRAHIAKSILSKKNKAGGIMLP DFKLYYKATVTKTAWHWYQN RDIDQRNRTEPSEIMPHVYNHLI FGKPDKNKQWGNDSL FNKWC WENWLAICKKLKLDPFLTPYT KINSRWIKDLNVRPKTIKTLEEN LGNNIQDIGMGKDFTSKTPKA MATKDKIDKWDLMKLKSFCTA
7867	38235	B	7922	1	3171	
7868	38236	A	7923	1	2646	

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7869	38237	A	7924	321	2211	CCQFSMARRGHLPRSVQVSIPG QSPVPRAAYQDSGRYKEPTAD C/VGPRQT*CMAPHCHLGGWH MLALSLGKGAGAGGKESTWEP SPGIRMTKTYSTRREQSHPTI/ KGQIKQMNLRETCSWTFHKKF LKTVAFQISHPHKNTCLAMAVS ANRSMRQKFNKDTQELNSALH QVDLIDIYRTLHPKSTEYTFSSA PHHTYSKIDHILGSKALLSKCK RTEIITNYLSHSAIKLELRIKNL TQNRSTTWKLNKLLNLDYVW HNEMKAEIKMFFETNENKDTIY QNLWDAFKA VCRGKFIALNAH KRKQERSKIDTLTSQLELEKQ EQTHSKASRRQEITKIRAELEKEI ETQKTRQKINESSSWFFEGINKI DRPLARLIKKKREKNQIDTIKN YKGDITTDPTIEIQTIREYYKHL YANKLENLEEMDKFLDYTLPL RLNQEEVECLNRPITGAIEVAII NTLPTKKSPGPDGFTAIFYQRC SRWIKDLNVRPKTIKTLEENLGI TIQDIGTGKDIMSKTPKAMATK DKIDKWDLIKLKSFACTAKETTIR VNRQPTKWEKIFATYSSDKGLI SRIYNELKQIYKKKSNNPIKKW AKDMNRHFSKEDIYAAKKHM KKRSSLAIEMQIKTTMR
7870	38238	A	7925	1	3057	
7871	38239	A	7926	1	1830	
7872	38240	B	7927	1	3192	
7873	38241	A	7928	1	3484	MGTSEVQNGEERAGTSGQGSV EQLSGSSVQLPPGLKLCFEPYFS SCASDCILHASPLSLMAASGSQ NPNLWASWLCKWVQC PERQ LGCHLTSSVIYGLRYPQAKRS ELELRDCEGLCNQTSPLSSLDG MGWKAAAEESNSGIRNIWIP AFATHKQYNVRQVISPPPYWS HRGNGNNSLCVTRLSSGLKQP VAGTGRGLEGGSGTRDLM PFL SAAPKEQPPI LAPARRSWFFEKI NKIDRLARLIKKKRE

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7874	38242	A	7929	1	1946	NLTQNRSTTWKLNLLNDYW VHNKMKAEIKMFFETNENKDT TYQNLWDTFKA VCRGKFIALN AHRKQERSKIDTLTSQLKELE KQEQTHSKASRRQEITKIRAE KEIETQKTFQKVNESSWFFERI NKIDRPLARLIKKKREKNQIDAI KNDKGYITDPTEIHTTIREYYK HLYANKLENLEEMDKFVGTYT LPRLNQEEVESLNRPITGSEIVAI INSLPTKKSPGPDGFTAIFYQRY KEELAGRDTTKENFRPISLMN IDAKILNKILANRIQQHIKKLIH HDQVGFIPGMQGWFNICKSINV IQHINRTKDKNHMIISIDAEKAF DKIQQPFMLKTLNKL VLEVLR AISQEKEIKGIQLGKEEVKLSLF ADDMIVYLENPIVSAQNLLKLIS NFSKVSGYKINVQKSQAFLYTN NRQTESQIMSELPFTIASKRIKY LGIQLTRDVKDLFKENYKLLSK EIKEDTNKWKNI PCSWVGRINI VKMAILPKVIYRFNAIPIKLPM FFELEKATLKFIWNQKRARIA KSILSQKNKAGGITLPDFELYY KTTVTKTAWYSYQNRDIDQW NRTEPSEITPHIYNLIFDKPEK NKQWGKDSL FNKWCWENWLA ICRKLKLDPFLTPYTKINSRWIK
7875	38243	A	7930	1	4801	MGDFTPLSTLDRSTRQKVNK DTQELNSALHQADLIDIYRTLH PKSTEYTFFSAPHHTYSKIDHIL GSKALLSKCKRAEIITNYLSDHS AIKLELRIKNLTQSRSTTWKLN NLLNDYWVNNEMKAEIKMFF ETK\ENK\DTTYQNLWDAFKAV CRGKFIALNAHRKQERSKIDT LTSQLKELEKQEQTHSKASRRQ EITKIRAELEIETQKTLQKINES RSWFFERINKIDRPLARLIKKR EKNQIDTIKN

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
7876	38244	A	7931	1	3146	MGDFNTPLSTLDRSSRQKVNK DTQELNSTLHHADLIDIYRTLHP KSTEYTTFFSAPHHTYSKIDHVV GSKALLSKCKRTEIITNCLSDHS AIKPELRIKKLTQNRSTTWKLN NLLLNDYWVHNKMKAEIKMFF ETNENKDTTYQNLWDTFKAVS RGKFIALNAHKRKQKRCKIDTL ASQLKEVEKQEQTHSKASRRQ EITKIRAELEIETQKTLQKINES RSWFLERINKIDRPLARLIKKKR EKNQIDVIKNDK
7877	38245	A	7932	1	2669	MHNTDGNRFLSHWGYRQALSI SKPASASLHPSSKTKPLGTQSKT VVAKRNRHGGKERSSSPAME QSWMENDFDELREEGFRRSNY SELREDIQTGKEVENFEKNLE ECITRITNTEKCLKELMELKTK ARELREECRSLRSRCDQLEERR KQERSKIDTLTSQLKELEKQEQ THSKAGRRQEITKIRAELEIET QKTLQKINESRSWFFERINKIDR PLARLIKKKREKNQIDTIK\NDK GNITTDPTIEIQTIREHYKHLA NKLENLEGMDKFLDTYTLPR NQKEVESLNRPTGSEIVAIINSL PTKKSPGPDGFTAIFYQRYKEE LHINRAKDKNHMISIDAFAF DKIQQPFMLKTLNKLVLVLAR AIRQEKEIKGIQLGKEEVKLSLF ADDMIVYLENPIVSAQNLLKLL SNFSKVSGYKINVQKSQAFLYT NNRQTESQIMSELPFTIASKRIK YLGQLTRDVKHLFKENYKPLL KEIKEDTNKWKNI PCSWVERIN IVKMAILPKVIYRFNAIPIKLPM TFFTELEKTTLKFIWNQKRARIA KSILSQKNKAGGITLPDFKLYY KATVTKTAWYSYQNRDIDQW NRTEPSEILPRIYNYLIFDKPEKN KQWGKDSL FNKWCWENWLAI CRKLKLDPLKPYTKIKSGWIK DLNVRPKTIKTLEENLGITIQDI GMGKDFMSKTPKAMATKAKID

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7878	38246	A	7933	1	2962	MNNSIKEKVKLSLTKWEMQTK PNNNTVDLKDQEVNLTSTDY RKQHVMLPTEINSDDSLKIGVI RLANWIKSQDPSVCCNQETHLT CRDTHRLKIKGWRKIYQANGK QKKAGVAILVSDKTDFKPTKIK RDKEGHYIMVKGSIQQEELTIL NTYAPNTGAPRFIKQVLSDLQR DLDSYTLIMGDFNTPLSTLDRS TRQKVNKDTQELNSALHQVDL IDYRTLHPKSTEYTFFSAPHHT YSKIDHILGSKALLS
7879	38247	A	7934	1	4220	MGDFNTLLSALDRSTRQKVNK DIQELNSALHQADLIDYRTLHP KSTEYTFFSAPHRITYSKIDHLV GSKALLRKCKRTEIITNCLSDHS AIKLELRIKKLTQNHSTTWQLN NLLLNDYWVHNEMKAEIKMFF ETNENKDTTYQNLWYVKDTRI SGMLWYVKAVCRGKFIALNAH KRKQERSKIDTLTSQLKELEKQ EQTHSKTSRRQEITKIRAELEKEI ETQKTLQKINECRSWFFEKINKI DRPLARLIKKKRE
7880	38248	A	7935	1	3229	MGKKQNRKTGNSKTQSASPPP KERSSSPATEQSWMENDFDEL EEGFRRSNYSELREDIQTGKE VENFEKNLEECITRITNTEKCLK ELMELKTKARELREECRLSR CDQLEERVVSAMEDEMNMKRE GKFREKRIKRNEQSLQEWDYV KRPNLRLIGVPESDVENGTKLE NTRLDIIQENFPNLARQANVQIQ EIQRTPQRYSSRRATPRHIVRFT KVEMKEKMLRAAREKDRSTRQ KVNKDTQELNSA
7881	38249	A	7936	1	3227	MGDFNTPLSTLDRSTRQKANK DTQELNSALHQVDLIDYRTLH PKSTEYTFFSAPHHTYSTTDHIL GSKALLSKCRTEIITNYLSHDS AIKLELRIKNLTQNRSTTWKLN NLLLNDYGVHNEMKAEIKMFF ETNENKDTTYQNLWDAFKAV CRGKFIALNAHKRQERSKIDT LTSQLELEKQEQTTHSKASRRQ EITKIRAELEKEIETQKSLQKINE SRSWFFERINKIDRPLARLIKKK REKNQIDTIKN
7882	38250	B	7937	1	2089	

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7883	38251	A	7938	1	3527	MELKTKARELREECRLRSPCN QLEERSVAMEDEMNMKREG KFRDKRIKRNEQSLQEIWDFVK RPNLRLIGVPESDGENGTKLEN TLQDIIQENFPNLRQANIQIEI QRTPOQYSSRRATPRHIIVRFTK VEMKEKMLRAAREKAPHHTYS KIDHILGSKVLLSKCKRTEIITN YLSDHSAIKLELRJKNLTQNHST TWKLNSLLLNDYVWHNEMKA EIKMFFETNENKDDTTYQNLWD TFKAVCRGKFIALN
7884	38252	B	7939	1	5238	
7885	38253	A	7940	1	3587	MENDFDELREEGFRRSNYSEL WEDIQTKGKEVENFEKNLEECI TRITNTEKCLKELMELKTKARE LHEECRLRSRCDQLEERSVAM EDEMNMKGEGKFREKRIKRN EQSLQEIWDYVKRPNLHLIGVP ESDGENGTKLENTLQDIIQENFP NLRQANVQIQEIQRMPQRYSS RRATPRHIIVRFTKVEMKEKILK AAREKDRSTRQKVNKDTQELN SALHQADLIDLIDLIYRTLHPKS TLEYTFFSAPHHT
7886	38254	A	7941	1	6202	MVKGSIQQEELTILNIYAPNTG APRFIKQVLSDLQRDLDSHTLI MGDFNTPLSTLDRSTRQKVNK DTQELNSALHQADLIDYRTLH LKSTEYTFFSAPHHTYSKIDHIL GSKALLSKCKRTEIITNYLSHDS AIKLELRJKNLTQNRSTTWKLN NLLLNDYVWHNKMKAIEIKMFF ETNENKDDTTYQNLWDAFKAV CRGKFIALYAHWRKQIERSKM DTLTSQLEELEKLEQTHSKASR RHEIAKIRAELEKEIE
7887	38255	A	7942	2	3134	WRKIYQANGKQKAGVAILVS DKTDFKPTKIKRDEGHYIMVK GSIQQEELTILNIYAPNTGAPTFI QQVLSDLQRDLDSHTLIIGDFN TPLSTSDRSTRQKVNKDTQELN SALHQADLIDYRTLHPKSTEYT FFSAPHHTYSKIDHILGSKALLS KCKRTEIITNYLSHSAIKLELM IKNLTQNHSTIWKLNNLLLNDY VWHKEMKAIEIKMFFETNENKD TTYQNLWDTFKAVCRGKFIK NAHKRKQERS

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7888	38256	A	7943	1	4455	MELKTKARELREECRLSRNRN QLEERVSAEMENEMKREG KFREKRIKRNEQSLQEWDYVK RPNLRLIGVPESDAENGTKLEN TLQDIIQEDFPNLRQANVQIQE IQRTQPQRYSSRRATPRHIVRFT KVEMKQKMLRAAREKDFKPT KIKRDKEGHYIMVKGSIQEEEL TILNIYAPNTGAPRFIKQVLSDL QRDLDSHTLIMGDFNTPLSTLD RSTRQKVNKDTQELNSALHQA DLIDYRTLHPKKS
7889	38257	A	7944	1	6108	MTGSNSHITILTLNINGLNSAIK RHRLASWIKSQDPSVVCIQETH LTCRDTHRLEIKGWRNIYQANG KQKKAGVAILVSDKTDFKPTKI KRDKEGHYIMAKGSIQEEELTI LNIYAPNTGAPRFIKQVLSDLQ RDLDSTLIMGDFNTPLSTLDR STRQKVNKDTQELNSALHQAD LIDYRTLHPKSTEYTFFSAPHH TYSKIDHIVGSKALLSKCKRTEI ITNYLSDHSAIKLELRIKKLTQN RSTTWKLN
7890	38258	A	7945	2	788	CGLAIYNCTIVDLHFPLALYKK LLKKKPSLDDLKELMPDVGRS MQQLLDYPEDDIEETFCNFTIT VENFGATEVKELVLNGADTAV NKQNRQEFVDA YVDYIFNTSV ASLFRCS\SGFHKVCGGKGLR LFQPNELQAMVIGNTHF*WKG TGKDYRNTKGNIWAEHPITIKIF WEVFHVELPLEKKK\RFLLFLTG S\DRIPILGMKSLK\LVISTGGG E\EYLPVSHTCFNLLADLPKYTK KETLRS*T*SQAIDHNEGFSLI
7891	38259	A	7946	1	1647	
7892	38260	B	7947	363	550	
7893	38261	B	7948	1	1123	
7894	38262	A	7949	1	3136	MVTHQQPAARKPNMTSKKPKP MGPKAHGIFSGTRKNNLEIYMD QTRTGIAKTKLSKNNKSGGMT LPDFKLYYKAIVAKIACGGS MY NSDTDEDEETEPSSSGQIIENSI TMNKMKLLKAKMKNMNL SKK HITQVSDEEEDDDGCDLFADSE KEEKDIEDIEENTRPKRSRPTSF ADELAARIKGDVGRVDEEPTT VSYEDDRRGKNQDAYTEGGLS TIKTVNCSSSLTLRRSKTSEDQ EKKERRTPSDDEED

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7895	38263	B	7950	303	1010	
7896	38264	A	7951	3	280	
7897	38265	A	7952	3	514	FYLKELDPAEHSYVLIRKIDPAL VWGLTGDQGTPTKTRLLMITLD SIFMQASCVPPEVVWEVLRVLE AHSSKKHFVFGESMKLITKAS VQQEYLVHK*VSHSNPTLYVFL WGLSKETRQMEVPEFVAKVND THPSSFSVGSK*GI*KEGGRYP VPEMGSCRLVTVTASV
7898	38266	A	7953	2	351	
7899	38267	A	7954	2	529	EKGERPHWSNKPNSLKRTHL DIDENPASDFDDSGSLLGFKYG SGQKYGGIPYFSHRQVR**EKN VKLKAKYLNMRGQIKMKNKHI FFTKETEKPFKSKILSKVEKF LTWVNKPMDEEASQESSHDN GHDASTSCDSEEQDMSVKKGD DLLETNNPEPEKCQSVSSAGEL
7900	38268	A	7955	1	1370	MPVGTSNLLLGLLENPNLPLT RSPFPSQREASWGIQKATTGP GEGETRLGFSLLLDVFCALHG PREKCVIELRSGHLLAISPGGVR EALISDETYNIVWGHRRGFAQV AIDAKVVEKFLTWVNKPMDEE ASQESSHDNVHDASTSSDSEE QDMSVKKGDDLLETNNPEPEK CQSVSSAGELETENYERDSLLA TVPDEQDCVTQEVPSRQAETE AEVKKKKKNKKKNKVNGLPPE IAAVPELAKYWAQRYRLFSRFD DGIKLDREGWFSVTPEKIAEHIA GRVSQSFKCDVVVDAFCGVGG NTIQFALTGMRVIAIDIDPVKIA LARNNAEVYGIADKIEFICGDFL LLASF*KADVFLSPPWGGPDY ATAETFDIRTMMSPDGFIFRLS KKITKNIVYFLPRNADIDQVAS LAGPGGQVEIQNFLNNKLKTI TAYFGDLIRRPASET
7901	38269	A	7956	3	560	RIHTGEKPYDCKDCGKAFGRTS ELILHQLRHTGVKPYECKECKG TFRQHSQILHQRTHTEKPYV CKDCGKAFIRGLQLTVHRRHT GARPYGVLKECGESLLDSTHS* LLHQRIHTGEEPYECKECKG FIHSSEVTRHQRIHSGEKPYECK ECGKAFRQHAQLTRHQRVHTG DRPYESAED

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
7902	38270	A	7957	155	1288	HTTASQTTMSQAVR/RRRSDYL SSARR/RRDPARSKPTQGGPPPN PPPTRQGRPTALTNPSPRPRHR AHPHQHATPKPRTNEEQEGRR HTKQPNPTRTEPRPPNRRGRPN PQTRRTKQONTTPQAHTSTRKN ARTPGLCP*CVKGKTEGGYDA RASARGPYMAGVSWPGEHEDP GAPEARRGRRALPGVGSAPPEM STHTESTPKTTAHTSNDRRNRE QRVKKKTYKTTRSARGANRNST ERHEDGYFYGSLTTGPLPWHS IHSVSAGQPWSLKFTGLQQAS EGYFSQSQERSLPNRKSSVPRLR LLFLQQASRLSELPLGTEGPGSL LLRPREELACTGKRRKTGGAIM GEVSVCELSLPAPAFQSPVQLC GCQPEKA
7903	38271	A	7958	1	2045	REAAAATPSFPSSSVRPSVRAS VRSARSGPKHGRRQLQRPPGA /RWRLTRR*SERRARPTGLCTH MKMAPMTSSLQHQEKGACRSF RDTLRTRR*CTASAVSRTPK\RS AKIRAHQLGGRRCA*CPQVRLC QPRG*GGRVLPGCRRDRERQQ RGRHRRGCHRAAL*RAGATL QPCAAPTAAARG*ER/SSPWAPP TRRRMQLWK*SGLTESSGSRP RRKKSCGRRRSGRPPWMRGS SSRSGWSRSGRSKRSASGATGS GSSRSRSTGGNSRL*KRKRPRG G*RSSLVLVTIGMRRKRPT*RSQ SRRWRRQQLLLPSGLTTQGSSS SSRKESHRPLRAAVMYPRPSTI DQAATWTATGGWRPLPSRGA RLTPAPPPLSLR*SGPWMRSP P/PQPPPLPPPPP\PKRPRSPAPS* TVRRPEQQPLRPGAPWRSPLR HRRLPGGQAALQRT*CSWSLQS RLSWLLPWSLPQLTPRRSTMQL TPLKLTPLLTPLLPTTYPPPPA SLTYGLATGKGPPHSRVSPGPP RHPRVLRSPWQRCPCWMRWL RSHCCQQAQAVPPFSTLMSCLS RQPPSVTQRKWKGSPLPPRPQ LCPQPLRSWSKSRSPPTC*PM ARPPRRRGPRPSEG YFSQSQEEE FAQSEELCAKAPPVFYNKASE NVIHMLGCRPSSRRGGGLRGW
7904	38272	A	7959	3	174	

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7905	38273	A	7960	3	862	GVMASRTL L L L L L L L L L L GALALTET WAGTHSIRYFSTAVSRPGRGEP RYIAVG Y VDDTQF DAATPRM* PQSPWLEQEGPEY WDRSTRNIR PAHRLTRVNLPMPPRRYYHQS* AGTGIFHGIRRYIPDTCVQTHM IHHSVSDYKATLRCWALGFYP VEITLAWQ\QDEEDQTRDHEL VETRPAGDGT FQK WAA VVVPS GQEQRYTCHVQHEGLPKPLTL RWEPS S QPTIPIVGIIAGLVLFGA VITGAVVAAM/WQEEELRTFS SHR*SELT SERASSDHAQGS DV SLTACKV
7906	38274	A	7961	1	591	MVTDY A I E L F L Q A S L I L L S S T L P YNEREMGLSIFALLTLTVFL L L L ADKVPETSLSVPIIKYLMFTMV LVTFSVILSVVVLTLHHRSPHTH QMPLLVPSDLHSQTS AV PASKK AQTRERPDAGAPSLFFSRKWL G YIARQLQE QEDHD/VAEGGLAV CGHGS GPPLPVDFHHLHQ RWD PSHLPGRHVPLAPSRPLSL
7907	38275	A	7962	1519	1888	ILKHPTLDKELITYLFYLFIFL RRNFTLVA*ARVQWCDLAPPQ PLSPGFKPFSC LRFPSWDYRYA PPYLANFVFLVGTGF\ SMLVRL VSNSRPQ/CDPPASASQSAGITG VNHHA\RTFNF
7908	38276	B	7963	280	1977	
7909	38277	A	7964	994	1651	CRGSQPAPPLTPHPNAPLGPSD LHSQTS AV PASKKAQTR\GDLM PEPPHCSSPGSGWGRGTDEYFIR KPPSDFLFPKPNRFQPELSAPDL RRFID/VSKPGCGPASGATGG\ V SSISYIARQLQE QEDHD/VAEGG LAVCGHGS GPPLPVDFHHLHQ RWDPRSSSWSHVPLAPSRPLSL KTGGLRPGPLPEVREFGDTV K PYPSLPLNSFTRNLGLLFRSG

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7910	38278	A	7965	10	533	DEVSLCCQAGVQLHDVGSLQT ASQVQAILLPQPPEVAEISGACH HACLIFVFLVEMGFHHIGQAGL KLPTSGDLPASASQSAGITGVS HRARPASSYLFFF*DEVSLCCQ AGVQLHDVGSLQLPPRFKRFS CAPASRSS*DFRRLPPRLPNFCIF/ M*RWGFTILARLVNSNRPQ/CD LPASASQSAGITGVSHRARPASS Y/CIFFLRWRLTIAQAGV**CNL SSLQPPTPGFKWVSLSLPSSW DYRSLPPLPANFCIFSRDGVSLC SLSWSRTPDFK
7911	38279	C	7966	312	467	
7912	38280	A	7967	31	678	TGLYFLFLFCLRRSLA/SVAQPG VQWRDLGSLQPAPPGLRRFSFL SLQSSWEYRCPLRPADFLYF*S RRGFSTLVRLVNSNRPQ/CDPPA SASQSAGITGVSHCARLFFSFE MEFRSVAQAGVQWRDLDSLQ PLPPGLT*FCSLSLPRLGAA/WD YRRVPPCPAIFC/IFFFSRDRVS PCWSGWSQTPDPQVIRPPRSQ SAGITGVSHRARPSHIS
7913	38281	A	7968	23	99	YTMTPGPGCWRL*TGPHPPHT WPGGSSSHPQIPHRPPCVFG
7914	38282	A	7969	144	1239	ERTEPDH/TTTLT*P/ELPADTTA TVEDMLPSVTSVTNSTDITETF ATAQYILTSETTTLTSSIAPPAT ATPDSNSVPAGQATPSKGPSAS APSPAPASAPKVAPLVDLSDTP TSTPAASNLSVVLANQGAVLS PSAPAGVGEASKAPPASKPTPA PVPTPTGAASPLAAAAAPATEA PQAKQEAPSTKGPDPPEPTQPGA AKSPAEEAATALASPKSEAASVS TTNPSQGEDFKMDEGNFKTPDI DLAKDVFAALGSPAPAAGASG QAPELAPSTADSSVSPAPAKTE YGLSLSAVIGLCPVVSGWEDSG LPSIKWLLGLKVQEKGLNLSGK NTASGINLGLLEERTRSSDSVLL NYGCTLES LGCF
7915	38283	A	7970	3	375	ARQAMKSLHQCFLLPRQAL EASSCNSTGWGEGGTGKSGLQ RGP*NQCWEPSPAQQAFTSS* AVATAAGQGEELPLLPSTTP GKNTASGINLWLEERTRSSDS VLLNYGCTLKS LACF

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7916	38284	A	7971	1	2230	MFEASVGWFMRL EERTRLHDI QAQDEAVTADLEAAAGYPDLA KIIDEGGYTKQQIFSVDDTAFS WKKMTLRTFIAKEGTNTDGAS SATSSLVSLC LELCFLRAHHDV GFYCDLDVYQSAVYAPTCTG YSLPQAKEESDFIPLEYEKGRIT STAGQGQDVEPEMEQLEKGSIK GVTETRTGPLGCSNYDNLDSVS SVLVQSPENKVQLLGLQVLLPE YLRERFVAAALSYITCSSEGEL VCKENDCWCKCSPTFPECNC PD ADIQAMEDSLLQIQDSWATHN RQFESEEFQALLKRLPDDRFL NSTAISQFWAMDTSLQHRYQQ LGSWL*KVLF\KKTHRILRRLFN LCKRCHRQPRFRLPKERSLSYW WNRIQSLLYCGESTFPGTFLEQS HSCTCPYDQSSCQGPIPCALGE GPACAHCAPDNSTRCGSCNPG YVLAQGLCRPEVAESLENFLGL ETDLQDLELKYLLQKQDSRIEV HSIFISNDMRLGSWFDPSWRKR MLLTLKSNKYKPLVHVMLAL SLQICLTKNSTL\EPVMAIYVNP FGG\SHSES\WFMPV\NEGQFSL TW\ERTNVDAAA\Q\CQNWTM HLGGIRWKTFF\ETVHVYLR SR IKSLDDSSNETIYYEPLEDDWIP LRNLG\YMKINTL\QVFGYSLPF DPDAIRDLILQLDYPYTQGSQD SALLQLIELRDRVNQLSPPGKV
7917	38285	B	7972	62	232	
7918	38286	A	7973	3	258	KLSPPPPLPSPPLPRGP A\GPP SRLPSP/PASASPQGV P*LGPA A AELPGIRSR*PQVA APEAETHP WCCC*RSSPQQQRISH

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7919	38287	A	7974	1	1048	MAHSQNSLELPININATQITTAY GHRALPKLKEELQSEDLQTRQK ALMALCDLMHDPECIYKAMNI GCMENLKALLKDSNSMVRIKT TEVLHITASHSVGRYAFLEHDI VLALSFLNDPSPVCRGNLYKA YMQVLVQVPRGAQEIIISKGLISSL VWKLQVEVEEEEFQEFILDTLV LCLQEDATEALGSNVVLVLKQ KLLSANQNIRSKAARALLNVS SREGKKQVCHFDVIPILVHLLK DPVEHVKSNAAGALMFATVIT EGKYAALEAQAIGLLLELLHSP MTIARLNATKALTMLAEAPEG RKALQTHVPTFRAMEVETYEK PQVAEALQRAARIAISVIEFKP
7920	38288	A	7975	1	782	MAVTAAACWSLRPLARRDVCV GVALASPFVKPTHWFCKTLLEP CRPTGMGAQEIIISKGLISSLVW KLQVEVEEEEFQEFILDTLVLC QEDATEALGSNVVLVLKQKLL SANQNIRSKAARALLNVSISRE GKKQVCHFDVIPNPWSHLLKD PVEHVKV*RCRLPLMFAITVIT EGKYAALEAQAIGLLLELLHSP MTIARLNATKALTMLAEAPEG RKALQTHVPTFRAMEVETYEK PQVAEALQRAARIAISVIEFKP
7921	38289	A	7976	1	300	VEQTGRGE/RAYDIYSRLLRNA FLCVMGPIDDSVASLVIAQLLFL QSESNNKPIHMYINSPGGVVT GLAIYDTMQYILNPICTLPRTVR MSPRWCRSL
7922	38290	A	7977	2	470	RPPQRTLQNGLALQRC LHATAT RALPLIPIVVEQTGRGEASYDIY SRLLRERIVCVMGPIDDSVASL VIAQLLFLQSESNNKPIHMYI/N QPSGGARGQATDIAIQAEIIMK LKKQLYNIYAKHTKQSLQVIES AMERDRYMSPMEAQEFGILDK

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7923	38291	A	7978	3	864	SCRYPALGPRLAAHFPAQRPPQ RRPPRTACSLQRCLHAITATRAL PLIPIVVEQTGRGERAYDIYSRL LRERIVCVMGPIDD\SV\SLVI AQLFLQSRISNMKPIHMYINS PGWVWVTAGLGHLTDITAVTF LQPDFCTW/CSLGPGAASMGSL AFFAAGTPGMRHFAPQLPVFMI QPALQEGAGGQSPPD\AIQAEE NP*KLKKQL\YNI*RQRTTQTRS LQGDRVPPMAEGTA*HEAPME GPQEFGLKTRFLVPPSPQDGE\ DEAPRLVQKEP\VEAAPAAEPV
7924	38292	B	7979	1	2088	
7925	38293	A	7980	412	812	FQSLFTCVLFHFKFSLTIHHMNS QPF*RIRSTFFFLKQSL/DSVTQA GVQWRDLGSLQPPPPGFKQFSC LSLPSSWDYRRAPHPANFFYF F**QTGFTHVGRMVPI*PRDPP ALASQSPGITGMSHCTRPRIR
7926	38294	A	7981	2	178	
7927	38295	C	7982	279	322	
7928	38296	A	7983	2	760	GVRSSGGGR\GRPGGGPRKARR GKAEDKE*MPVTKLGHLVKDM KIKYLEDV/YFSLPIKETIDFF LGSSLKEEGLKIMPVQKQTRAG QRTRFKAFVATGDYNGHVGLC VKCSKEVATAIRGSVILTKHSIV PVRRGY/WGNKMDK/PHTVPCK VTGRCGSVLVHLIVSAPVPKLL LMMAGIDDCHTSARGCTAT/LG NFAKATFDTISKTYSYLTLDLW KETIFTKSPYQEFTDHLVKHTT RVSVQRTTRAPAVATT
7929	38297	B	7984	318	406	
7930	38298	C	7985	333	439	
7931	38299	A	7986	2	171	
7932	38300	A	7987	1	668	MGGLFWRSALRGLRCGPRAPG PSLLVRHSGTIMGVFVAVGTI PVPSRVPCIEADTLKPGGPSWT RERTLVAVKPDGVQRRLVGDV IQRFERRGFTLVGMKMLQAPE SVLAEHYQDLRRKPFPPCPSSR YMSSGPVVAMVWEGYNVVR SRAMIGHTDS\AEAAPG\TIKGV DFSVHISRNVIHASDSV\EGAQR RIQLWFQEQ*SWVSWAID\GGQ HSSIHPA
7933	38301	A	7988	1	897	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
7934	38302	A	7989	1	142	MEYYAATKNDEVMSFV/GT/W MKLETIILSKLTQEQTCKHHMF SLISGS
7935	38303	A	7990	287	1086	EPWREMFISVYTLQKLGAFTI AKTWNQPKCPSMIDWIKKMW H/IYTMEYYAAIKKDEFMSFER TWMKLETIILSNLTQEQTCKHR MFSLISGSRTMRIHGHREGNITC QGLLGECVHTVATRGSPSATE DESCRMNVNDYGGNSPSTLQV KTSPQGRAEKGNNVRTWLYSN LVCWPSLGSMLGKLRDRVIKR VIYTHTAGDVSMHEEGFQFPLK QVSLLLCAIAFQPSLVVAAALV HITMEAYTYLEVTLQLIHSPFC FLPKCHF
7936	38304	A	7991	1550	1835	DTISHQLEWQSLKSQETTALLTI AKTWNQPKCPSMIGWIKK\MW HIHTMEYYAAIKRNEFMSFAGT WMKLETIILSKLTQEQTCKHH MFSLIRGS
7937	38305	A	7992	164	647	DLPVEPHIGKMILFEALVL/HCL DPVLTIAASLSFKDPFVIPLGKE KIADARRKELAKDTRSDHLTV VNAFEGWEEARRRGFRYEKDY CWEYFLSSNTLQIM/MKIIKAVI CAGLYPKVAKIRNLGKKKK\K VKVYTKTDGLVAVHPKSVNVE QTDHFHYNWLI
7938	38306	A	7993	66	345	

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7939	38307	A	7994	1	2367	HRVTVISGETGCGKTTQVTQFI LDNYIERGKGSACRIVCTQPRRI SAHSSCGKSSCRKGGQNLVASGN STGY\QIRLPESVAQGNRVLSYT VPTRNHPSSGSQSDPYLSSVSHI VLDEIHERNLQSDVLMTVVKD LLNFRSDLKVILMSATLNAEF SEYFGNCPMIHIPGFTFPVVEYL LEDVIEKIRYVPEQKEHRCQFK RGFMQGHVNSQEKEEKEAIYK ERWPDYVRELRRRYSASTVDVI EMMEDDKVDLNLIVALIRYIVL EEEDGAILVFLPGWDNISTLHD LLMSQVMFKSDKFLIPLHSLM PTVNQTQVFKRTPPGVRKIVIA TNIAETSITDDVVYVIDGGKIK ETHFDTQNNISTMSAEWVSKA NAKQRKGRAG\RVQPGSLLFICI NGS*EASLLGWTIQLPEIFEEP WEGTLFTK*RFLRLGEIAYFLSR *MDPPSNEPVLLSIRHLRSLNA LDKQEELTPLGS\HLARLPVEPH IGKMILFGALFCCLDPVLTIAAS LKFAQ\SPFVIPLGKEKIADARRK ELAKDTRSDHLTVVNAFEGWE EARRRGFRYEKDFCWEYFLSS NTLQMLHNMKGQFAEHLGA GFVSSRNPKDPESNINSNEKII KAVICAGLYPKVAKIRLNLGKK RKMVKVYTKTDGLVAVHPKS VNVEQTDHFYNWLIYHLKMR\ TSSIYLYDCTEVSP\YCLLFFG\G
7940	38308	A	7995	25	312	WLIYVITDARMYRQRGRYYFL VSSSLDKVLMISFLLGWRRSSR RLRAFLVLHLRASPWAPRSFVR PVSAFSVGMCHMKTRVFENTF PFTLGHTVRYVGREIF/CRRVFT RYRESIKISLPTYLTVCPRVKGN VFSNTRVFMWHIPTLKADTGRT KLLGAQGEARRCKTKKARKRR EERLQPNKKEIITLSKEETKK
7941	38309	A	7996	2	417	QQIRKLIKVGLIIHKPVIVHSQV GCQKSTFS/RTRKGRHMG TG*R KSTANFQMPEKVTWMRRMRIL HWLFGRYHESKKTDDHMYHSL YLVQGNMFTNKQILMEHNHK LKADKAHKKFLADQAEARSSK TNKASKLREER
7942	38310	A	7997	3	124	KKRPELRDLLNQARKETL/ARK EDRSASSGAEGDVSSEREP

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7943	38311	A	7998	911	1497	SQRKARDQRRKRNRKRASSIAK HKEPKRPILPSGKNSQEGVATH TKPLAQGKVWLDP/NETNEIPN ANFRQQIRKLIKDGLILRHRKPV TVHSRAQGWKSTLARRKGRHL GIESKKIDRHMYHSLYLKLGKN VFKHKRILTEHSHKADKAR KKPLADQAEARGSKTKEARKL REEHLQTKKEEIIKTLSQEEKAK
7944	38312	A	7999	34	279	EVIHAAIGEEKGSY/NA**PWVE EQLTRQPLIHHPASLHVSYY/RC RYHSLYLKVKGNVFKNKRILM EHIHKLKADKARKKLLA
7945	38313	C	8000	351	530	
7946	38314	A	8001	356	921	WRATACTYPSWAPPRILVATGP AAVSAGLPSLHGTRAGPQAPCT AAVPPAPLPPHRPAS*/G/MPAGP VQKGAPT/AAAAG*RLKKGQS RRQGRGGAERTEGCQHAVTFQ DCFLRCFFG*/C/CLSG/ERAIALE QGASHAAEQLPRLQAFKRPGPL /QVNPDAPOKSAASSSLKVLG LPKHQRPRRFCQNTGS*SGP**T TGRRSAAGAA/GKPENPGSPPA PHNFKSGTNPVTTTHHPVGSKP RPEPHGNSEA
7947	38315	A	8002	495	653	MTLTSIDPVLTTFFNLECPL/VFT ATASSGLGEVE*/AIALN
7948	38316	A	8003	1	1433	MPESNCSLTWRHSVGRAVAAQ GGEHSSQGASLVLGEPGGSS WLLGLEGDTGLWGGLLKEGRL TDGKGKTIDCKDAIFIMTSNVA SDEIAQHALQLRQEALEMSRNR IAENLGDVQISDKITISKNFKEN VIRPILKVRGLSWHFLLEPKAHF RRDEFLGR\IGEIVYFLPFCHSEL IQLVNKELNFWA\KRAKQRHMI TLLWD\REVADVLVDG\YNVH YGARS\IKHEVER\RVVMQLAA AL*SRTLLPAGGCTLRITVEDSD KQLLKSPPELSPQAEKRLPKLR LEIIDKDSKTRRLDIRAPLHPEK GRLTDGKGKTIDCKDAIFIMTS NVA SDEIAQHALQLRQEALEM SRNR IAENLGDVQISDKITISKN FKENVIRPILKVRGLSWHFLLEP KVLTTFFNLSVLYLHGNSIQRL GEVNKLAVLPRLRSLTLHGPN MEEKGYRRARGHSLHQGIEK YICESDDIFRKYCNNQFL
7949	38317	A	8004	1	789	

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7950	38318	A	8005	1	409	LRLELSFCSSCLEPPWS/TTVV CLYCRPATDFHPSGSGRVS AVL LIQ*G/RPLPLLIRLKACHCSHTA KCPGSSPSSMSPTAEEQKSGTA EERREGASEHGEEFGWGRLE RS AVEWPNSRGRSSSHSIPFPAPRP
7951	38319	A	8006	1	1787	MSKGESRKCNEENVSKSSKV V KVFIVLTPQFLSRDKDQLTKEL QKHVKSVTVSCKSPRKL LSHIT RLHPPSKGQGENLTHLVDSIKA TIWCQPVWETVEGQRRRVGNC IDFTNGCDLVGSSSLHNMLVCS SYDINRQDTFQKDRTSEKHL LD SVFTALQDSAGQQWP ARLHPQ RGEEVADPRGAPSRHVE PENSS PCQGNGEQAGKAGARALCGQ ARRSPATMPPPLTTRSLCEFAVF LLHWLFPELFHYRKLGEQDSCY GDGGKQELDPQRLQIICNFTEV YFPHMQEEEA WRQAGPGPAEA AD/TSATSRRSTSPTCRRRRPGC SGAPSASTTSFRAWGWTQAAK ASPPRDNCYNSSSLPDDISLFT H DNLHKQHSCSDSLGKKQLDPS CIKLIRH*VHLLYLCTKNNRVW TLEFMGNLHWNRRNGAPTSSS ARSTCWPRV*RHEELCNQS*EV QRGV*GSPAAPERSSKDFCKIPL DEVVVP H*/DFPVRSPYLLSDKE VCKIVQQSLSVGNFAAGLL/LPP RTSSCSTTIFGL/DNKKQLDPTQ LRLICH*VEAVYPVEKVEEVWH CECIPSNDEQCHCPNRKKCNIL

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7952	38320	A	8007	1	1475	MAVDFSLAVLMIVSSYDINRQD TFQKDRITSEKHLDSVFTALQD SAGQQWPARLHPQRGEEVADP RGAPSRHVEPENSSPCQNGEQ AGKAGARALCGQARRSPATMP PPLTTRSLCEFAVFLHWFPEL FHYRKLGEQDSCYGDGGKQEL DPQRLQIICNFTEVYFPHMQEEE AWRQAGPGPAEAAAD/TSATSRR STSPTCRRRRPGLQRCACQIND KLQGLGLDAGSEGEPTRQLLQ LLQPAR*HLSNQGGG*LQGRAL FTHDNLHKQHSCDSLGGKQQL DPSCIKLIRH*VHLLYLCTKNNR VWTLEFMGNLHWNRRNGAPT SSSARSTCWPRV*RHEELCNQS *EVQRGV*GSPAAPERSSKDFC KIPLDEVVVP*/DFPVRSPYLL SDKEVCKIVQQSLSVGNFAAGL L/LPRTSSCSTTIFGL/DNKKQL DPTQLRLICH*VEAVYPVEKVE EVWHCECIPSNDEQCHCPNRKK CNILKKAKKVEK
7953	38321	A	8008	1	3524	MCNNLIHLSLANNKITTINGLN KLPIKILCLSNNQIEMITGLEDL KALQNLDSLHNQISSLQGLENH DLLEVINLEDNKIAELREIEYIK NLPILRVLNLENPIQEKSEYWF FVIFMLRLTELDQKKIKVEEK VSAVNKYDPPPEVVAAQDHLT HVVNSVMQPQRIFDRYLLEIQR PEFRLVLKLVGNESLPIASADSL ALTSDMVRNGLGDLFYDFRAC HTTRPPYFGEGRVDYHFISQD VFDEMVMNGKF
7954	38322	A	8009	258	719	MTPPSVLP*PSLSY*HPDYSLPF PFSPPVLCFPHVQGLYSVLFVN TAAEPREKSAMAILPLSGHACS HVCLGSHQSLFQRACGRCPRL SGSLRSHCHWLLILGVKKCSPP EAGKAILTTDRTETMNISWKP RNPSHTVPHPHICCHWRI
7955	38323	B	8010	1	1953	
7956	38324	A	8011	32	533	GRERPLLSPYMETLYRVPFLVL ECPNLKLLKPPWLHMPSAMTV YALVVVSYFLITGGIYDVIVPEP PSVGSMTDEHGHQRPVAFGLL QSKMDNNINGKGLCIQAS*FTM GGFRFS*ILDPIECTKYPKTSIDS FFCSIGISSVVLLEFFPWARSNS MRNGNCPGLI

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7957	38325	A	8012	670	1052	TRRDSRCKGTWLLSVKTLAISA VKSQKSKASECRFTNRSSSTAVI RVLLPGILLSSKLRCMVLATA LERDDSDVGVTISSINPQDSHFS CLLLLRISNSC*IC/CNFFAIRV HLAEVCI*QTSLLL
7958	38326	C	8013	40	186	
7959	38327	A	8014	1	1216	
7960	38328	B	8015	1	1032	
7961	38329	B	8016	1	1761	
7962	38330	A	8017	108	708	LTNQKKSRTTRRIHSRILPEVQGG AAADRHCPIDRLGSLQDHHRRS RLLSQWSP*KSTHD*HGFSYQS AEDIRRKLLQQAFAFAGMNTSEL LQIANQAFVNRDAVSRKENHR DNERQAQRNTDLLAAAIRGVPP KRQKGKGGPGKETQPGCQSLQR NQCA YCKEIGHWKNKCPQLKR KPGDSEQEAPDKDEGALLNLA EGLLD
7963	38331	A	8018	1	512	LSRSSPLLPLVWHQAMVGSMD VEPAAWVLMTCWDTPRQSGV PRERMPHTGTWRTVGIRCPKK KLRSANSSMMRGKVQPPFR/DI QAYGAAPFEDLQVDFREMPKC GGNKYVLVLGRTYSGWVEAYP TRTEKTREVTPLVLRDLIRFRP PLWIGSDNGPAFLAALVQKTA
7964	38332	A	8019	3	764	KQVLVNGDAVSREEKRKENER QARRNADLLVSCSNQSGPPKEA REELWTKDYRPGQDLRLLSQA TLTFHPTVPSPSTLLGLLPAEDS WFTCLDLKDAFFPIRSAPESQK LFAFQWEDPESALAKTVRQRC VSCRQHHAIGKVQPPFR/DIQAY GAAAFEDLQVDFTEMPECGGN KYLPLVLRGRTYSGWVETYPTRA EKAREVTRVLLRDLIPRLELPFR IGSDNGPAFVADLLQKTATVLG ITRKLHAASRPQSSGK

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7965	38333	A	8020	19	1548	CIYGAQLCTGPSAPVWYCPLGT MAPTGLPGHPAVATATEPHRE RGSPL/IDSTVLVPPQDKHILRPP TVDKRGGEASGETPPLAARLRH KTGIQMPLREQQYTGIDEYGHV VERRVFGYQPFTSAHLLNWKS NTPSYTEKPQALIDLLQTIQTH NPTRADCHQLLMFLFNTDERR RVLQAATKWLEEHAPTDYKNP QEDVRTQLLGTYPQWDPNERQ DMQRLNRYREALLEGLKRGAQ KATNINKVSEVIQRKEESPAQF YERLCEAYRMYTPFDPNPENQ CMINMALVIQSTEDIRRLQKQ AGFARMNTSQLLEIANQVFVN RDAVSRKENQKENGWPPCLR ALAATALLVQEANKLTLGQNL NIKASRAVVTLMNTKGHHWLT DARLTKYQTLLENPRITTEVC NTLHPATLLPVSESPVEPDCVE VLDSVDSSRPDLRDQAWASVD WELYVDGSSFFNPQGERGAGY AVVTLDTVVEARSLPQATSAQ KAELVAFIRALELSE
7966	38334	A	8021	1	895	MDGAGICYLHQTNAGTEIQTTPH VLTYSKRELNNENMWAHRGDN THWGPEGSTNSPASASGVADV SRVGSQWVLGLADFKNEAKE LRLYKQEKREKAKRWKETEK FNGDYGVMTMPGKWRTYFEID WSKLEVGWPSEGNLERSLVSK VWHKVTGKSGHSDQFPYIATW LQLVLDPPQWLRGQAAAVLVA KGQIPRKDPTPPGRGKSTPEVL FDPTSEDPLQEME/PSDPSGALP LPGKDAPHSAHSPCASTRQTY P*ATRSRQERR*SLERNPYIGSS FKTQNWDTNAPERAVVYWDR

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7967	38335	A	8022	1	1959	MLKNFKKGFNGDYGVMTMPG KLRTLCEIDWPTLEVGPSEGS LDRSLVSKVWHKVTGKSGHSD QFPYIDTWLPQWVRGQAAAVL VAKGQIVKEGSRSTHRGKSTPE VLFDPTSDDPLQEMAKVIPVVP SPYQGERLPTFESTVLVPPQDK HIPRPPRVDKRGGEASGETPPL AARLRPKTGIQMPLREQRYTGI DEGDHMAERRVFVCQPFTSAD LLNWKNNTPSCTEKPQALIDLL QTHIQTHNPTWADCHQLLMFLF NTDERRRVLQAATKWLGHEAP ADYQNPQEYGKEESPAQFYER LCEAYHMYTPFPDPSPENQRM NMAVSQSAEDIRRLKQKQAG FAGMNTSQLLEIANQVFVNRD AVSHTGAEHSVVTGPVAPLSK KTIDIIGAMGVSAKQAFCLPRT CTPGTKDYRLVQDLRLVNQAT VTLHPTVPNPYILLGLLPAEDS WFTCLDLKDAFFSIRLAPERQK LFAFQWEDPESGVTTQYTW LPQGFKNSTIFGEALARDLQK FPTRDLGCVLLQYVDDLLLGHP TAVGCAKRTDALLRHLEDCGY KVSKKKVAQICQQQVRYLGFTI RQAERTLGSGRKQVICNLPEPK TRRQVREFLGAAGFCRLWIPNF AVLAKPLYEVTK*GDREPF EW
7968	38336	A	8023	2	367	
7969	38337	A	8024	3	687	GGRRQRRSKVTSTWWQARESS CRGTLLEYKTIRSCDYSLSQEQ HGPNLHLIGVPESDGQNGTKL ENTLQDIIQENFPNLRQANIQI QEIQRMPQRYSSRRATPRHIIVR FTKVEMKEKMLRAAREKGRVT HKGKPIRLPADLLVETLQARRE WGPIFNILKEKNFQPRISYPAKL SFISEGEIKYFTDKQMLRDFVTT RPALQELLKEALNMERNNNWYQ PLQNHAKL
7970	38338	A	8025	1	993	

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7971	38339	A	8026	1	842	MAEQEQLQSAVPSPLLVIPRQK GSGVDFQQSPTDLQLRDLTDRR KTNKQKGIASLTLTKRTSTPKPH LYVTNIKDQRPNPRLIGVPESD GEKGTKLENTLQDIIQENFPNL ARQANIQIREIQRTQPORYSSRA TPRHLIVRFTKVEMK\EKILRA A\REKGR\VTHKGKPIRLTTADL SAETSTSQKTEWGPIFNIL\KEK NF\QPRIS\YPAK\LSFFISEGEIK\ YFTDKQMLRDFCHHQTCLP*KS TRPALKELLERKHLNM/EKGNN WYQPLQ\NHAQICKDH
7972	38340	C	8027	320	433	
7973	38341	A	8028	9	189	
7974	38342	A	8029	26	738	VAASSFDTCADHLCALHLLQV LHYLAIQKPADLARHLLPCVIH AAVLKVKEESLENISSVKKIJK QIISHSSKVLHFPNPEDKKLEEII HQITNVEALIARARSLKAKFGT EKCEQEEEEKEDLERFVSCLEQ PEVLVTGAGRGHAGRIHKLFLV NAQNVA\AMTPP\EEELKRMGS PEER\RQNS\VSDFP\PPAGREFIL RTTVPRPAPYSKALPQRMYSVL TKEDFRLAVKIIDGDV
7975	38343	A	8030	3	2961	MAADSEPESEVFEITDFTTASE WERFISKVEEVLNDWKLIGNSL GKPLEKGIFTSGTWEEKSDEISF ADFKFSVTHHYLVQESTDKEG KDELLEDVVPQSMQDLLGMNN DFPPRAHCLVRWYGLREFVIA PAAHSDAVLSESKCNLLSSVSI ALGNTGCQVPLFVQIHHKWRR MYVGECQGPVVRTDFEMVHLR KVPNQYTHLSGLLDIFKSKIGCP LTPLPPVSIARFTYVLQDWQQ YFWPQQPPDIDALV

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7976	38344	A	8031	1	1688	MREKPCQSNECGKAFNYSSLLR RHHITHSREREYKCDVCGKIFN QKQYIVYHHRCHTGEKTYKCN ECGKTFTQMSSLVCHRLHTGE KPYKCNCEGKTFSEKSSLRCHR RLHTGEKPYKCNCEGKTFGRN SALVIHKAIHTGEKPYKCNCEG KTFSQKSSLQCHHILHTGEKPY KCEECDNVYIRSHLERHRKIH TGESYKCKVCDKVFRSDSYL AEHQRVHTGEKPYKCNKCGRS FSRKSSLYHHHTLHTGEKPYTC NECGKVFSRRENLARHHLHA GEKPYKCEECDKVFSRRSLER HRRHTGEKPYKCKVCDKAFRS DSCANHTESSILGEKPYKCYK CCGGFLIQKGS LPQHQRVHTGE KPYECNECGKVFNQASLAKH QRVHTAKKPYKCNDCGKPLPD QSTLFHHQSNPIGVGKRYQ/CN DCHKVFSNATTIANHYRIHIE/ KIYKCNKCGKFFRRHS*LVVHQ *THTGEKPYKYHDCDKVFSQA SSYAKHRIHTGEKPHKCDDCG KAFTSCSHLRHQRIHTGQMPY KCKGGKVFTLWSFHAHQKIH
7977	38345	A	8032	25	1091	IHIYSDSCSLSLQDSGDEKEFNL DDNVSFRA SLWDLAAGPGQGG GGGREKWRAVISRTMNRKMG KMMVKALSEEMVRPADIGDGV SRGPGDRSGRM*AEKMALAFS EQEEHELPVLSRQASTGE*GMR GTPAESGGKDWVTA VL VAGPF CGRARVHTDFTSPYDHD SLKL QVRSASGLLWSLAGCAQKGSW TEPVGSFKFIYVDVLP EEAVGH ARPSRRQSKGKRPKPTLHELL ERIGLEV*AWSSLVSSIREAQLP QGWGPGHLNELNIMDPQHRAK LLTAAELLLDYDSEWL*ERPGE GAESSQEPG\GEACPKVDIPRDS GCFEGSESGRDDAELAGTEEQL QGLSLAGAP
7978	38346	A	8033	35	437	
7979	38347	A	8034	1	1845	
7980	38348	A	8035	1	212	
7981	38349	A	8036	371	915	
7982	38350	A	8037	1	2460	
7983	38351	B	8038	10	1510	

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7984	38352	A	8039	1	188	SASTTLWGLLI FLIHLRGTA LRA VSSWGTHLTAKEVQWGH/DCG THWSYHHLHQPRAGHKEC
7985	38353	A	8040	3	2332	FFFMWDPQHF/TFI/VLPQGYYN SPGLYSTVLRDLENLDIL*NIKF LYFIDNIMLTGMDE*EEDGTLE ALVKHLLSRGVKINKPYRDSEV ATAVK/FLQV*WLGASRGVPS NVKDKLLHLCI\PCKGREAHCL G*ALF*VS*HHIPTCKVVS GFDP HF*VT*EECPAFEWSL/QQERTL QQIPGHGAVTILQDPLVLKVPV GGVRFGVELNQAPVGESQWK LGIWSKAMSSTAQKYAP/FQSR EICWKQLLACY/W*ALI/EIECLT MGHKTTM*FQ\MLPRN*HLCNS *SHTLDMPQQHPIMRWKSFL*/ D*A*IPMLTSPRKHPNLKWP*TT KQKH/WKL/GQPSPWVSPGRVG WVHKWSKHSGRD/GGYLWVQ QY*LPPTKVDPDTATSKCP THQ HLNPMIFP/R*GSISLGDQDPK* GVDYIALFPS*KGQRFMTGIGT YSIVGFSCRVVIPSVSTTFWGLL IFVIHRLGTASPCS\SSWGTHLT AKEVQWGH/DCGTHWSYHHL HQPRAPGP*RMLKRASIGTAQR QLAGST/LCGWEGAIFQDMVHF KNQRHLYSSVISVGRTRGSRYQ GVEVDVAPYPI PSTHLSWDFAL LSQNHHSAG*KVLDSKGGYP*K ETNECPLNYTLQLP/PGE/FGQY VSRDQVRRGVPSSPGTVIDPD PQEEAWLLSHN/GG*EEFVWNP /GDPLGGLLV/LPCPIVSVRRIVQ
7986	38354	A	8041	1	1296	

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7987	38355	A	8042	498	2219	KSVKTST*DTLRTKAKTGQGHITGLQPWLGLRIRQEP/SAKTEK KAAIQAKAGAEREATGVVRPV AKTRAKAKAKTGSKTDAVAE MKAVSKNKVVAETKEGALSEP KTLGKAMGDFTPKAGNESTSST CKNEAGTDWFWAGEEATINS WFWNGEEAGNSFSTKNDKPEI GAQVCAEELEPAAGADCKPRS GAESEEEENVIGNWFWEGDDT SFDPNPKPVSRIKVPQVYEINE KNRPKDWSEVTIWPNAVTP AVLGFERSQAPSEASP/LFIYCSG LR*RKCLFFACGNSLPPF*EPRS CSQPIPECRFSDPCIQTIDEIRR QIRIREVNGIKPFACPKMECY MDSEEFELVSLKSTTDPLIHK IARIAMGVHNVHPFAQEFINEV GVVTLIESLLSFSPSEMRKKTVI TLNPPSGDERQRKIELHVKHMC KETMSFPLNSPGQQSGLKILGQ LTTDFVHHYIVANYFSELFHLL SSGNCKTRNLVLKLLNMSNP TAARDMINMKALAAKLIFNQ KEAKANLVSGVAIFINIKHIRK GSIVVVDHLSYNTLMAIFREVK
7988	38356	A	8043	1	453	MEKLDELKIKIDNINGALICARH FSKCSSNAQSHLCPYLQAFPGG PG/VRGLPGWPGRTGSRELGHG WRGCG/EGLVSGCQTMLSGA/P AGSPQ\PTGGTRAHAVRGRP*V PARSQGSRLARPGQED*GAAP\ DFDPGAAGVPGVPALQEAQI
7989	38357	A	8044	3	690	SLSLPSSWDYRRAPPRPANFVF LVETGFTMLTTIVLIS*PHHPPA SASQNAGIV/GVSHSPRPGIACLI TRLDL/HQGTQSRVPALGSS*PIP HARPRGHTLKALPYRLYTQTA RGFGQPRVRIPLLSLLGSLKPSE LRGQVGHAFAFAISLCLVF TLLVEGKLKPPGASVRRCLQSN RDLGFRATFPTSHRGHGALGLN YISQRATGTPNLWLPFRFRVVL LQAACG
7990	38358	A	8045	106	299	
7991	38359	A	8046	306	445	
7992	38360	C	8047	570	926	

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7993	38361	A	8048	47	988	ASRPGSRVSLMFGAAGRQPD SSSPGTSWFPVPEMEELVHDL VSALERELQSKPRGGFAEPGDP FSEVY/PCPLKRPARKRRGRKR RFV*CASPVGGLVTA*SEGSDS SFRRTKSKKRKLKIIRQGPKIQD EGVVLESEETNQTNDKMECE EQKVSDELMSESDSSSLSTDA GLFTNDEGRQGDDEQSDWFYE KESGGACGITGVVPWWEKEDP TELDKNVPDPVFESILTGSFPLM SHPSRRGFPTKTQSAFMECLQRI LKNLEGLQLQWYPFLAQWVTR EWFIFPRILITMTIGLALGLGQS MTSISF
7994	38362	A	8049	3	476	LTRPVD*RPGTIHLGRGVRARP ANRRRQRARRGAAISPPGPCSV AGFLRGRLG/PEPGDNGQHLGE PWLGCGLFA*RA*CSRSTRCT* RRRAPGDRELPRAPATWAPPIK LVPRVFSSKVGQGVSGLVEAM CLGQDSILNQSNKHNSVASSNT ITVIG
7995	38363	A	8050	2	143	
7996	38364	A	8051	1	161	
7997	38365	A	8052	3	1189	ESPLLGHSSSDAARRRSVSSFP VPQDNVDAHPGSGKEVRVPAT ALCVFDAHDGEVNAVQFSPGS RLLATGGMDRRVKLWEVFGEK CEFKGSLSGSNAGITSIEFDSAG SYLLAASNDFASRIWTVDDYRL RHTLTGHSGKVLSAKFLDNA RIVSGSHDRTLKLWDLRSKVC KTVFAGSSCNDIVCTEQCVMSG HFDKKIRFWDIRSESIVREMELL GKITALDLNPERTELLSCSRDDL LKVIDLRTNAIKQTFAPGFKC GSDWTRVVFSPDGSYVAAGSC *RALLYIWDVLTGKVEKVLSK A\HSSSHQCGWPWSPSWARTF VSVDKGCKAVLWGTVLTGLSG LGGPQCPHEEAHGLLPWSW QVNVLGYSMDLPEKLANVGH

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7998	38366	A	8053	116	921	LSKSNRCW*GCEEKGTLIHCW WEC/KFNPLLKAI*RFLKELKVE LPLDPAIPSLGLSKIGTGKKVW QRLPNCPTISLFSFFHKNRHTGT YRRRFLDSLAVRCPNPAFTGS KSDVCNFWVMPSTGKKCALPS HPLFPNGLNADVCLSDSENLS QKILLILEVSDSVILGKLSHKNI QHDCIEEPLTLRNTQQFRFLCI ACHGCTSQYSTFLVKASWTRS QGLIQRQPSAGSGYPEKLFSEG AGDEGVDLLPLLAKPASPEQL
7999	38367	A	8054	35	422	SCSEVTEASWGSVPELRDAQLG VGLHSPTYRHPHRETLTCCPAG TLQAWPFCGRIRVRVPVSWLGE PGRGLIPGSGSAASSECLPGLHG RAPLGTSCRPGRPLP/WNQPPPR LAQPGHRDPDADAATERPGLQ RPSRTACERFPMGVSVRRRVEA HSQLGVPELRD
8000	38368	A	8055	3	277	GPPRPPA*RGHGGRPENTPAPP RWPPPP/PRSPAPLPPRRACADV THPPVPTPGKRTPPPIGGAPAAR AAPRRPAPSCFSAPTGC SLTTG
8001	38369	A	8056	3	179	PPPHPQGPPPPGRPPGC*RPI/QG RQVFSMKPGRTPERTAWS/PPY PGCLGSRPRRPSAPA*SGAHCV VAPYPGCLGSRPRRPSAPA
8002	38370	A	8057	3246	4682	ENTLSFASFFFFEMLSLCRPGW SAAAPCQLTAASTYWVKRFSC LRLPSSWDYRRAPQHANSFCI FSRDRAL/TMLVRLVSNS*PQVI RLPQPPKVGL*ACCGFCGSS GMAPGCGRVVS HAGAPGGTR PP
8003	38371	A	8058	3	718	LTRLVLSPDAPD/RATHLIAA/R AGTEKVLQ/AQE/CGHFHVNP DWLWSCLERWDKIEEQLFPLR DDHTKAQRENSPTPLPDREGIPP TALSHMPILPKAQPSPEVRIYD SNTGKLIRTGARGPPAPSSSLPI RQEPSSF/RVDDILGEGSDDSDS EKRRPEEQEEEPQPRKPGTRRA RTLGA PASSERSAAG/SRG/PRG HKRKLNEEDAASESSRESGNEY EGSSSEADEMAKALEAELNDL
8004	38372	A	8059	273	468	NVKGTAANGD*G*RGEAAPAG RSRARVPEDAASESSRESSNED EGSSSEADEMAKALEAELNDL M

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8005	38373	A	8060	1	2886	MEVPAAGRVP AEGAPTA AVAE VRCPGAPLRLLLEWRVAAGAA VRIGSVLAVFEAAASAQSAGAS QSRVASGGCVRPARPERRLRSE RAGVVRELCAQPGQVVAPGAV LVRLEGCSHPVVMKGLCAECG QDLTQLQSKNGKQQVPLSTAT VSMVHSVPELMVSSEQAEQLG REDQQRLHRNRKLVLMVDLDQ TLIHTTEQHCQQMSNKGIFHFQ LGRGEPMLHTRLRPHCKDFLEK IAKLYELHVF TFGSRLYAHT
8006	38374	A	8061	2	680	
8007	38375	A	8062	658	1657	PGILSLRNALLTGVDCKVVVPV PPGHTHPQLRLFHFHPKTCSGW GEWGDHGVVWAGPAPA\YHL HRDVQALWTNDHALAWP*AM TSERTLWPGHEL SARPGRSWRI SCPTGL\PQGGDDRTGRHWVTA TCCSADGLRLCRYGD\GV RGGL PTVAWP*LTGSCSLRYGSGQQC CYTADGTQLLTADSSGGSTPDR GHDWGAPPFRTPPRVPSMSHW LYDVLSFYCCCLWAAPDPGKD RAGLGCTPT*PSTLT LASAFGDP HFVTFDGTNFTFN GRGEYVGM G*NQGGRLPSGSR SAPTTAGT ETRGTGLTAVAVQEGNSDVVE VRLANRTGPER
8008	38376	A	8063	873	1791	RCAGCPHSSSFFER GQ*AAVGP CCHGGTYRKASSV*RVSV*HPP HDRGSRK/QSLSGR*STGLS*MP SGVASSASV*FVNVFSLSSSN*L AQSTARFP PGSVRGLGQGRAG GG*APGHGADHPTGRQHS*GSP APVTWLWWPPRHQAALAPAP STTPYDNSPLHCRPSGPSQSSH HSALPGT/SVPGSSPLEIVPGSSL YVS*SLIRALAAPISSSSVGKNC RCTERLAIKPAAESCRTRSSSAG QSVFSRFTSL*AFTG*AR*PSAS AADLLVKASILLAQLLILES LAS STRMYSFRDCTSSSFA

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8009	38377	A	8064	2	935	YSPARGSGRGDLSRRPGAGRRA GQGPQVGAPKPGGAEYVRWA AGGMKGAGGSSGSGSGSRE AG*PGVPRGRRGWRTPAEPPG WGPGRRQACGA*G/EGRAAAQ VGGAPAAAGGGVAREEAPS*P GDAAGGSGTPGAASVQVSAPP AQPOINLSAGARAGVARRCVCP RGAE*GPGDPGPGSRR*PPAA QSGPPPCPSALFLHPSGFLCRRP QPSRAQGGEVSGALRAVPRLSG GAGNLAALPCQLPGSGGLTPGC /QASQGLGVLGLVRAGPAWSPL DGPLDQKVFSPTSLWNQRCFS LAAAGPVIIR
8010	38378	A	8065	3	367	
8011	38379	A	8066	2	1246	TPAWSREILAEELCTPPDGAFA VVVECPDESFIQPICENATFQRY QGKADAPVALVHMAPASVL VDSRYQQWMERFGPDTQHLVL NENCASVHNLRSKIQTLNLI HPDIFP/AAHQFPL*EGGHPQC AHGSG*MPPQVPAPFQE/WSAR GMPLLLAILRNS*LRRCSFPTSS RALQEYRRSAQDGPAPAEKRS QYPEIIFLTGSAIPMKIR\NVSA TLVK\QSPDTSLLDCGEGTFGQ LCRHYGDQVDRVLGTLAAVVFV SHLHADHHTGLPSILLQRERAL ASLGKPLHPLLVVAPNQLKAW LQQYHNQCQEVLLHHISMIPAKL PSGRWLRSPVLQWKD*FSSLLR T\WIWEEFQTCLVRHCKHAFGC ALVHTSGLAKVVYSGDTMPCEA LVRMGKDATRQADELISFQG
8012	38380	A	8067	121	880	GAAASQLPAVPQVPVGGPAPH QYDSCQMPSGRG*DLQSCSGKI DQFA/AWTTCDLEEFQTCLVRH CKHAFGCALVHTSGWKVVYSG DTMPCEALLVRMGKDATLLIHE ATL\EDGFRKREA\LEKTHSTTS QGHSAWGMRMNAEFHY/VLN HFQARRY\SKVPLFSPNFSEKVG VAFDHMKVCFGDFPTMPKLIPP LKALFAGDIEEMEERREKREL AGAGRPSCSRGAGRRPLEDGE QKRAHTEEPQAKKVRAQ

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8013	38381	A	8068	1	607	SPGSWETRLVWWSFYRCKHS LCPCLVGEFLVFNSPMQSGSAG EPPRLQF/GAPLPGAAPGNYRRT GRGREGPWPPPLAPSLFAFSDL GSSPGRTSWRPPAVSRRLGPTFP PPAPGRGRPRRAA*TGPSAQ/PP RSLSTLSPAPAAPAVRTAPPVAS PRAAPAPLRAITLLATKSEELPV VSFFSSRLVLAKRPKRLAQMH WGH
8014	38382	A	8069	1	290	QFLDAESGSAGEPPR/LAVPAPF PGGAPGNYGRTGRGREERSWP PPLAPSLFALSDFGSSPGRTSRR PLAVSRRLGPTFPPLPPAPGR GRPRAAP
8015	38383	A	8070	1	565	SPGSWETRLVWWSFYRCKHS LCPCLVGEFLVFNSPMQSGSAG EPPRLQF/GAPLPGAAPGNYRRT GRGREGPWPPPLAPSLFAFSDL GSSPGRTSWRPPAVSRRLGPTFP PPAPGRGRPRRAA*TGPSAQ/PP RSLSTLSPAPAAPAVRTAPPVAS PRAAPAPLRAITLLATKSEELPV VSFFSSRLVLA
8016	38384	B	8071	475	913	
8017	38385	A	8072	145	275	
8018	38386	A	8073	1	310	VEELTARTGGGAPPGCQADAK RMPQFPQRTPWGHGFAGAPFP ISKPHGPPAGQL*PG/PSCEQT/E PPSPVNVTVTHLRANSATVSW DVPEGNIVIGYSISQV
8019	38387	A	8074	1	483	GSHRVGRWAALCDRAAPRGLT NRETGGGAPPGCQADAKRMPQ FPSQRTPRGHGFAGAPFPISKPH GPPAGQL*PG/PSCEQT/EPPSPV NVTVTHLRANSATVSWDVPEG NIVIGYSISQQRQNGPGQRVIRE VNTTTRACALWGLAEDSDYTV QVRSIGLRL

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8020	38388	A	8075	2	854	RPPAARARRWLPKSPARRSRR PAHRCRRRRRTCTPQATRPGMR *APAAACGPTGRRS/RLPALKL ALEYIVPCMKNKHGICVVDDFLG KETGQQIGDEVRLHDTGKFT DGQLVSQKSDSSKDIRGDKITW IEGKEPGCETIGLLMSSMDDLIR HCNGKLGSYKINGRTKAMVAC YPGNGTGYVRHVDNPNNGDGRC VTCIYYLNKDWDAKVSGGILRI FPEGKAQFADIEPKFDRLLFFW SDRRNPHEVQPAYATRYAITV WYFDADERARAKVKY/RNR*K RCEG
8021	38389	B	8076	1	205	
8022	38390	B	8077	1	806	
8023	38391	A	8078	1	2279	MKVGLDQIIEVVP SHSVTSGAA AGECGGVHCD SVCAEGRWGPN CSLPCYCKNGASCSPDDGICEC APGFRGTTTCQRICSPGFYGHRC SQTCPQCVHSSGPCHITGLCD CLPGFTGALCNEA YSQ/SCPSGR FGKNCAGICTCTNNGTCNPIDR SCQCYPGWIGSDCSQPHCADKC VHGRCIAPNTCQCEPGWGGTN CSSVKKQSTVCES*KCEPWEER PCGGLHWDIAG*/P/GKHGGYL NELGAFGLDRSYMGS LKDLG KNSEYNSSNCSLSSSEN PYATIK /GPTCTYPEKL RVWLCGDEIAG TKRFPICRDQ*LNFSQQECL*S* TYSECCPRSIQQ*WASFP GSI*PP KNSHIPCHYDLLPVRDSSSSLK QEDSGGSSSNSSSSSE*/APKDR LGLLV**RS*SM*TNRLAKHPK QPGRKGPKI**HGTWKSSQEK/ HAEEQSGKLAATLCGKD WLIQ REGWPYILSRMFL/CFISTD GRE SESLWRKSNGNSKFKF*WGRPG KCGL*EGQREEVWGLGNSLYC LAGQL*CLDCECHH/GFQECCP VLGHSWGYKS/CLNRNPLKGLS SRCAGLAVRDSLAPNSQGWKA TFDFPSLECPSTYGYGCRQICD CLNNSTCDHITGTCYCSPGWKG ARCDQA/GCYHSWKSEQLKPN QYCSPC*FLPDRGHCRRHHSCP SCSLPTGIVHYL* TQAEKGKIKH
8024	38392	B	8079	1	2909	